

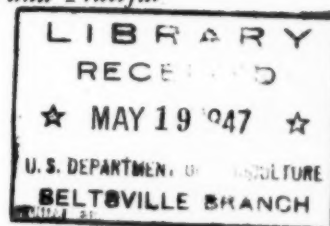
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AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 15, 1947



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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AMERICAN NURSERYMAN

F. R. KILNER, Editor

Editorial

CAN COSTS BE CUT?

Observations in the preceding issue on the trend of nursery stock production and its relation to prices contained a statement that, if catalog quotations were revised upward in the past few years to reflect increasing costs, there was little in the present picture to warrant revising them downward. Wages continue high, and good help is still hard to get, while supplies and equipment cost as much as ever.

Yet if government officials and some other folks harp on keeping prices down as necessary to avoid a business recession, can nurserymen do nothing about it?

This is a subject on which general statements are dangerous. Not only do price structures vary according to industries, but firms differ in their price policies in the same field. One motorcar manufacturer advertises a slight reduction in price, while another announces that the new union wage contract will make necessary higher prices for cars. Those merchants who pushed up prices because the public bought regardless of price must expect a decline as consumer pressure lessens. Those sellers who kept prices under control may actually face the unenviable necessity of raising prices now, as costs advance further. In this field, one would need to differentiate between different types of nursery firms, and the different types of stock handled.

Unquestionably, the public not only has ceased spending lavishly, but is shopping around to find standard merchandise at fair prices. This critical spirit must be exercised by nurserymen in the operation of their own enterprises.

In spite of high hourly wage rates, costs can be reduced by getting more output per man-hour and by increasing efficiency in other ways. There are a number of things which nurserymen can do to keep prices down.

Production should be based upon economical operation, rather than on maximum output. The entire organization, in the office and in the field, should be conscious of costs.

More expensive materials and practices that were employed in wartime to circumvent shortages should be discontinued as soon as possible.

Labor-saving machinery should be employed where it can be found, and

The Mirror of the Trade

obsolete high-cost equipment should be replaced.

Inefficient employees acquired during the labor shortage should be replaced or trained in better ways.

Business methods need overhauling. Systems have fallen by the wayside, and wasteful processes were followed when labor was scarce. The management of every business enterprise needs to examine its procedure from start to finish. Here, more than in any other place, can savings be made.

Reduction in costs will make possible lower prices or better quality products, or both. Either creates an incentive to buy on the part of the public.

Increased volume, usually accompanied by lower cost per unit of sales, is a sure way to lower prices without sacrifice of profit.

Early action toward efficiency and economy will enable nurserymen to keep pace with the public drive to keep prices down. That is to be preferred, and is safer financially, than a cut in profit margin.

SPRAY THE ELMS.

The slow spread of the Dutch elm disease and phloem necrosis of elms is bringing fear into many communities where avenues or highways are beautiful with stately rows of American elms.

Their fear is reflected in the widespread discussion of trees suitable for street planting which will come nearest to the beauty of the American elm and insure against total loss from an epidemic disease. Recommendations which have come from nurserymen's discussions were presented in an article in the May 1 issue. It is supplemented in this issue by excerpts from a bulletin recently issued by the Morton Arboretum.

In the eastern part of the country the canker stain of London plane and, earlier, the chestnut blight furnished other examples of the danger in too much uniformity of street planting. A warning of this risk is reiterated in a clip sheet from the United States Department of Agriculture released this month. "For permanent beauty," it states, "it is far safer not to have more than a few blocks of uniform plantings in cities, and not more than a few miles at most, on country highways." Dr. Curtis May is quoted: "The use of diversified plant material is cheap insurance against total loss from an epidemic disease."

One paragraph in the U. S. D. A. release reads: "Scientific studies have developed practical sanitation methods that will save most of the London planes. Breeding resistant elms and spraying with DDT offer encouragement to elm lovers."

Spraying with DDT, it should be explained, is not a cure or a preventive of either phloem necrosis or Dutch elm disease. But the scientists doing research work on these diseases think both of them may be transmitted by an insect not yet identified. If this theory is correct, spraying elm trees with DDT will come the closest of any possible preventive against these diseases, by killing whatever insect is responsible for their transmission. The recommendation is not given with any certainty of success, but it offers the only hope thus far given of saving the elms that make the avenues of some communities famous.

SPRAY TRADE NAMES.

The number of new insecticides, fungicides, weed killers and fumigants which recently have been introduced or are in prospect of introduction poses a problem in trade names that is confusing, to say the least.

DDT alone gave rise to hundreds of new brands of insecticides for various purposes. How the nurseryman might recognize which were useful to him and what strength of each preparation to use is a poser. Then along come such tongue twisters as hexaethyl tetraphosphate, dinitro-ortho-cyclohexylphenol and a dozen or so other chemicals, giving rise to a further multiplicity of brand names, and we are lost.

Some of the brand names bear some relation to the chemicals they contain, and some do not. The more responsible manufacturers indicate in their instruction leaflets and on the container labels what chemicals are contained in the product and what its strength. Perhaps this should be made necessary by law, just as in the case of drug products sold under brand names.

The suggestion of the American Fruit Grower is that each group of material be given a number—insecticides in a series 10 to 20, fungicides 30 to 40, etc.—and a nicotine compound would bear the number 11, DDT would carry 12, sulphur would be marked 35, for instance. Then we should need a chart of numbers, or a memory nearly as good as that to recall the chemical constituents.

Comments on Holly Species

By Gustaf E. Malmberg

The holly has its greatest distribution in South America, where it also has its greatest commercial value. The most common species there is *Ilex paraguariensis*, from the leaves of which is made a tea, called mate, or Paraguay tea, which is popular in South American countries.

In South America, in Brazil in particular, sixty species of hollies are to be found, but of course they are tropical; so we are not concerned with them here. In China, Japan and Hong Kong there are forty described species. For instance, from China we have the *cornuta*, *fargesii*, *pernyi* and *pedunculosa* species. From Japan come such species as *crenata*, *integra*, *latifolia*, *macropoda*, *sieboldii* and *sugeroki*. From the Himalayas come two species that are tender to a certain degree, *diphyrena* and *Insignis*. There are two species from the Canary islands, with *perado* and *maderensis* from Madeira, the two last-named being not too hardy, but I grow them at the Masonic homes at Elizabethtown, Pa. Then, of course, there is *Ilex aquifolium* from Europe, the queen of them all.

In North America there are a few good hollies, too, *Ilex opaca* being the most important in the temperate zone of the United States. Its range is from Massachusetts to Florida and Texas, and it reaches its largest dimensions in the bottom lands of Arkansas and Texas, but also growing to considerable size in Florida. Another evergreen *Ilex* that ranges from Massachusetts to Florida is *Ilex glabra*, a fine plant for low screens or in limited numbers in foundation plantings. In the south there are three hollies worthy of mention, *cassine*, an evergreen called the dahoon holly, and *vomitaria*, the yaupon. Both the dahoon and yaupon hollies range from Virginia south to Florida and Texas. *Ilex caroliniana*, or as some people would want it called, *Ilex ambigua*, is a deciduous holly that appears from North Carolina south to Florida and Texas. There is a fourth one, not so important, that grows in Virginia and Louisiana. In fruit it closely resembles the shadblow, from which tree it derives its name, *Ilex amelancharia*. It would be a useful plant for gardens south of Washington, D. C.

Deciduous hollies can be grown easily in the vicinity of Elizabethtown. *Ilex verticillata*, the black alder, grows from Connecticut to

Florida and is without a doubt the most common of the deciduous hollies. *Ilex laevigata*, the smooth winterberry, can be found from Maine to Georgia. The range of *Ilex decidua* is from Virginia to Florida, but it is perfectly hardy at Elizabethtown. It is commonly called the possum haw.

It is well known that the holly is one of the oldest plants in cultivation. The Greeks knew it before the Roman empire was established, and up to the time when Linnaeus gave the genus the name of *ilex*, derived from a Celtic word meaning spine (referring to the spiny foliage of most of the genus), the hollies were known under the name of *agria*, meaning wild from the fields. From this latter word were derived the names *agri-folium* and *aquifolium*. The hollies grow to a ripe old age, and some trees in southern Europe are eighty feet tall and 800 years old. One tree in Rome is said to be 1,200 years of age, but I do not know if it is still

there. This one is, of course, an *Ilex aquifolium*. Even in this country we have some quite large hollies, and in near-by York county there are three trees of considerable size. The one at Indian Steps lodge, an *Ilex opaca*, is a fine specimen which must be forty-five to fifty feet high. All three hollies must be about 200 years old, and they are magnificent trees.

Methods of Propagation.

A few methods of propagating hollies should be mentioned. Propagation is usually done either by seeds, cuttings or grafting. Where true species are required, by seeds is as good a way as any, especially when plants in quantity are wanted, but it will, of course, take several years before the sexes of the plants can be determined. When a large amount of seeds is to be sown, they should be stratified in sand. It is a good idea to mix enough peat moss in the sand so that the mixture is quite acid, for it aids



Ilex Aquifolium Pyramidalis Compacta.

in germinating the seeds the following spring when the mixture of seeds and sand is sown in nursery beds. It takes at least two years to germinate, and many seeds may germinate the third year. On a small scale, the seeds are sown in flower pans or flats and left fully exposed to the weather the first winter. The following winter they should be kept at about or a little above freezing temperatures, and they will begin to germinate in January or February of the second year.

Of course, for all varieties, clones and types vegetative means of propagation are necessary. Propagation from cuttings is by far the most common method. The rooting medium may be either pure acid sand, sand and peat moss in a half-and-half mixture, or if one is ultramodern, vermiculite. I have found that if experienced help is available, sand and peat moss may be used, but if there are only inexperienced employees to do the watering, it is wiser to use pure sand. It is much easier to use too much water than to use too little, and with the mixture of sand and peat the chances are that the bench will soon become waterlogged. The most important thing to do before inserting cuttings is to sterilize the cutting bed with potassium permanganate. This is important, especially if cuttings have been in the bed before. I use about as many crystals as can be placed on one-half inch of a pocketknife blade to two gallons of water. In watering these cuttings, the most important requirement is to use water at room temperature. If cold water directly from the hose is used, the cuttings will take much longer to root. It has been proved that cuttings from one tree may root easily and cuttings from others may be difficult to root. For best results, it is therefore important to keep a record showing from which tree the cuttings were taken. The time to take cuttings varies with the climate. In our vicinity the best time would be the latter part of October to the middle of November. We put the cuttings in a greenhouse in about 65-degree heat, and we use a heel cutting and Rootone for quick results.

The holly is not fussy when it comes to soil, but it does best in moist, good loam. Nevertheless, it is often found growing naturally on both sandy and clay soils and can even be grown on limestone soils. However, wherever planted, it always reacts favorably to a heavy mulch of oak leaf mold.

A few insects sometimes attack the hollies. A scale insect, *Aspidiotus britannicus*, infests leaves and

branches, but is easily controlled by use of two per cent miscible oil before growth starts or a nicotine spray during the growing season. There is also the holly fly, or holly leaf miner, *Phytomyza ilicis*. If the attack of the leaf miner is severe, it can be controlled by a nicotine and soap spray. If the attack is light, the affected leaves may be hand-picked.

Last year I noticed a new insect on a few of our aquifoliums. It was a webworm, similar to the barberry webworm. This pest may be controlled either by dusting with a rotenone dust or arsenicals. I make up my own dust of nine parts lime (hydrated), one part arsenate of lead and three to four parts sulphur (finely ground).

Ilex Aquifolium.

After many years of cultivation, the English holly, usually called com-



F. G. James.

mon holly in Europe, has given rise to many different varieties. As early as 1737 there were thirty-three distinct varieties, and in 1770 forty-two varieties were described. At present there are about 100 distinct varieties of *Ilex aquifolium* in cultivation.

I shall mention a few with which I am familiar that are now growing on the grounds of the Masonic homes at Elizabethtown. The one that seems to be hardier than any of the other forms of aquifolium is *pyramidalis compacta*. The first few years it may look rather straggly, but eventually it shapes up beautifully. It is a strong grower, and some years when we had ample rainfall this plant made a 2-foot growth. It has, however, a slight tendency to grow a little late in the fall, so that the fresh shoots may be caught by the early

frosts. The ripe growth is hardly enough; so the plants are usually not disfigured. This variety is female and bears profusely.

Albo-marginata is, as the name says, a variety with a white margin. Unfortunately, this is not very hardy with me. When well grown, however, it is one of the prettiest.

One of the oddest-looking of the aquifoliums is the hedgehog holly, *Ilex aquifolium ferox*. With a bunch of teeth on the upper convex side of the leaves, it is easy to identify, and the name hedgehog holly is an appropriate one.

Another form of aquifolium that has proved good with me is *camellaeifolia*. As this plant grows to maturity the spines disappear almost totally, thus accounting for the name. The new growth is beautifully colored, shining red, and it is one of the most striking forms. This is also a female, but the one preceding, the *ferox*, is a male plant.

We have a yellow-fruited variety,
[Continued on page 46.]

F. G. JAMES.

Now serving his third term as president of the San Diego chapter of the California Association of Nurserymen, which is to be host at the state convention, September 29 to October 1, at San Diego, F. G. James is partner with his brother, E. E. James, in the ownership and operation of F. W. James & Son, nurserymen and florists, at National City, Cal.

Born at London, England, in 1908, F. G. James went to National City, Cal., five years later. After graduation from high school he assisted his father, the late F. W. James, for several years before deciding to enter the nursery business. He attended classes at the University of California college of agriculture at Davis, majoring in landscape design, with supplementary courses in plant materials, entomology, plant pathology and genetics.

He was employed by the state of California as a plant quarantine officer for two years until 1936, when he entered into partnership with his father. Upon his father's death, his brother, E. E. James, acquired a half interest in the business, which now operates a retail nursery and flower shop at National City and a branch nursery at Coronado, Cal. In addition lemon and avocado orchards are operated, and some truck crops are farmed.

DICKERSON NURSERIES have been established at Peoria, Ill., by F. B. Dickerson.

Washington Budwood Certification

By Earle C. Blodgett

The quality and health of the nursery stock which an orchardist plants are among the most important factors involved in establishing a successful orchard. The occurrence of a considerable number of virus diseases and bud-perpetuated disorders in fruit trees makes the selection of scion wood of utmost importance, since most of these diseases are transmitted or perpetuated during propagation of nursery stock. The presence of virus diseases in pollinator trees or in wood used in top-working to other varieties has caused serious damage in many instances. Furthermore, it is well established that at least one virus may be seed-borne, as in the case of ring spot of sweet cherry.

Principally because of the recent information on many of these problems and the sound evidence that special attention should be given to more care in budwood selection, a program designed for the improvement of nursery stock is being developed in several states. Much of the incentive has been furnished by progressive and enlightened nurserymen and growers who see the advantages of such a program. One of the significant reasons is the attitude of quarantine and regulatory officials, who have resolved that education and research programs must be enlarged to provide needed information. It is expected that development of a similar program among the nursery-producing states will prevent the necessity of stringent quarantines or regulations that cause undue or unnecessary hardships.

The Washington department of agriculture has proposed a nursery program to be followed in regard to budwood certification for fruit tree stock. Control of bud-perpetuated disorders, chiefly the virus diseases, is the main interest. The actual program which is decided upon must be worked out carefully as a cooperative effort by those concerned.

This is a tentative proposal for such a program. Although all the available facts cannot be given here, this is the proposed plan, with

rather definite requirements, which the Washington state department of agriculture, in cooperation with other state, federal and commercial agencies, is suggesting and initiating for the purpose of assisting nurserymen in securing suitable scion wood and ultimately improving the quality of nursery stock and orchards.

The provisions established apply to any person or firm operating in the state of Washington producing or handling fruit tree understocks or propagated varieties for sale. Failure to comply with the provisions may necessitate regulatory action and the revocation of licenses.

California requires a certificate for peach stock from Washington in regard to peach wart, a virus disease. Recently a shipment was held up until it was determined that a certificate could be issued, based on the fact that a department of agriculture official had examined the source of budwood in question. Failure to comply with accepted rules will provide a difficult situation for nurserymen who ship out of the state. It is quite likely, too, that the probable presence of the little cherry disease in the northwest will have an effect on plans for budwood selection.

According to the estimates of six of the leading nurseries of the state, the following varieties and numbers of trees were to be propagated during the 1946 season:

Peach—Hale, Elberta, Early Elberta, Redhaven, Rochester, Halehaven, Rio Oso Gem, Veteran and Slappey. These varieties represent over 281,000 trees, while six other varieties bring the total to almost 300,000 trees. Most of the understock is Lovell.

Cherry—Bing, Lambert, Royal Ann, Deacon, Black Tartarian and Black Republican. These varieties represent a total of 99,000 sweet cherry trees, while about 30,000 Montmorency are to be propagated. The stock is both Mahaleb and Mazzard.

Apricots—Wenatchee Moorpark, Tilton, Riland, Sun Glo and Blenheim. The total is about 120,000. Most of the stock is peach.

Plums, prunes—Italian, Early Italian and Santa Rosa. The total of the varieties is about 83,000 trees. The stock is both peach and Myrobalan.

It will be seen that these trees represent about 6,300 acres of future or-

chards. It is readily apparent that there is much to be gained by having these trees come from good stock. It is also certain that a large number of suitable, disease-free trees are necessary to secure sufficient budwood. This phase of the program is the most important of all, and it is the most difficult, as shown by observational evidence during the 1946 season.

In general, nurserymen in Washington, and no doubt in other states where a tentative program has been in effect, are cooperative. But cooperation will last only as long as reasonable procedures are advocated and backed with sound counsel and firm enforcement, even though at first it is on a voluntary basis. In the early stages of the program, attention to certain of the more or less minor or masked diseases must be somewhat neglected, because of lack of time and facilities for proper indexing. A uniform, practical plan for certifying that fruit nursery stock is essentially free from virus or bud-perpetuated diseases will be the result of compromises between an ideal and one which is workable. There will be, of necessity, some conflict between scientific and practical application. It should be pointed out that the entire program of nursery stock improvement and certification is a complex thing. Problems cannot be solved at once by any plan nor by any amount of earnest endeavor. All details of the final plan which will be followed by the Washington state department of agriculture cannot be given now, but the principles which guide the program can be quite clearly defined. The following minimum requirements seem essential.

Seed Sources.

Insofar as possible, all prunus seed sources will be determined, and the producing trees will be examined and indexed, if this is considered desirable. Trees affected by virus or bud-perpetuated disorders will be either destroyed or will not be used for seed source.

Scion Wood Sources.

Budwood sources must be examined and approved by competent personnel. Nurserymen must estimate in writing by May 1 the number of trees of each variety to be propagated. In case of spring propagation, the requirements must be met the previous season. Nurserymen must

[Continued on page 48.]

Address delivered by Dr. Earle C. Blodgett, associate plant pathologist at the irrigation branch experiment station of the State College of Washington at Prosser, at a recent joint meeting of the Washington State Nurserymen's Association and the Washington chapter of the American Association of Nurserymen.

Prize Designs of Small Home Grounds

The one foreign entry in the regional competition for designs of small home grounds sponsored by the American Nurseryman and the National Landscape Nurserymen's Association received an honorable mention, with cash award, from the judges. This is the design for a colonial style house in zone 5, by Maximino Alvarez-Laviada of Caracas, Venezuela, reproduced on the opposite page. He terms it a Mediterranean garden design. Zone 5 em-

braces Florida, the Gulf coast, southern Texas and the lower half of coastal California.

The terms of the contest were that the colonial style home should be located in a lot gently rolling in front and reasonably level to the back lot line. The lot was 50x150 feet, the house to be placed no nearer than thirty feet from the street or nearer than five feet to side lot lines. The single-car detached garage could be located as desired by the designer

with access from the front. These home grounds were for a middle-aged couple having special pride in their surroundings. Provision was recommended for a vegetable garden, which might later be used as a flower garden. The couple's grown children have moved away from home, but return for frequent visits; so their possible requirements were to be considered.

The comments of the designer of this plan appear below.

COLONIAL STYLE HOUSE, ZONE 5. BY MAXIMINO ALVAREZ-LAVIADA, CARACAS, VENEZUELA.

The garden in front of the house is of extreme simplicity: A lawn extends on each side of the path; hedges of myrtus reach to a height of three feet; near the beginning of the path are two steps, made of red tiles with white mortar, and two whitewashed lateral rectangular prisms. Close to the front of the house the bushes are arranged and trimmed to form two squares, inside which simple flowers may be planted according to the season, and at each extremity, close to the steps, are two laurels trimmed to the shape of a sunshade, three feet high. The pergola, which is before the garage door, forms part of the front view, and its jasmine vines hide the garage roof.

One of the porch exits leads to a stone patio and the other to a tiled patio. The 3-foot walls, which partially close the patios at certain points and upon which, at the ends, are placed pots of flowers, are of tiling coated with white lime, as are also the pergola columns.

The patio near the garage has a floor made of pieces of stone of unequal size with straight sides and colored a light brown or toasted shade. The floor of the patio which has the fountain is paved with white stones $8\frac{1}{2} \times 8\frac{1}{2}$ inches and orange stones 4×4 inches.

In the center of the paved patio is a marble fountain with central spray. So that a model of this fountain with correct proportions may be obtained, the writer selected the fountain which figures in the popular work, "Patio Gardens," page 98, by Morgenthau Fox (published in New York). This fountain is the same as that in the grilled patio of the Alhambra.

At each corner of the paved patio is a low-cut bitter orange tree. The soil around the base of these trees is loose and is surrounded with an orange-colored unrelieved border.

The two paved seats at each end of the paved patio are of the style shown on page 42 of the book previously referred to, the stones being white, orange and blue or, better still, magenta.

The flower pots are colored chrome-yellow when they contain pelargoniums and magenta when they contain calceolarias with orange-colored flowers.

The lateral walls formed by the pittosporums which surround the paved patio should be allowed to grow to a height which will hide the garage wall from the patio.

The seat which is against the back wall of the garage in a corner of the vegetable garden is of white tiles, and an example of it may be seen on page 42 of the book above-mentioned. The vegetable garden plots are

bordered by tiles of the same color as those used in the construction of the seat. The soil for the paths is of toasted color, and the small place in the center, where the wellhead is situated, is covered with white pebbles.

The largest patio, situated on the same lower plane as the vegetable garden, which is reached from the vegetable garden through an opening cut in the intermediate wall formed by the cupressus, and from the orange tree patio by the central stairway, is tiled with red tiles placed in zigzag form. The side and end which enclose this patio are composed of trimmed cupressus; the side walls are seven feet high and the end wall, ten feet.

In the central line of this red patio are distributed three plots of fine grass, and upon these plots, at ground level, are three small water baths constructed of white marble or of blue and white paving stone in the style of Seville, for the cultivation of tulips or water flowers.

The small tiled wall, which forms a socle in the end wall of the red patio, makes a box disposed in such a way that the projecting parts permit the placing of two banana trees, one at each side, and two espurces with greenish-yellow flowers, one at each side of a bench, also tiled, which occupies the center, in symmetrical form. The height of the small wall is about three feet. Its stones are blue and white, as are those of the bench, and a model of it may be seen on page 74 of the book already referred to. It should be borne in mind that the openings which are made in the ground for the purpose of receiving plants should not be finished off with raised edges, as water falling on the paths should run to the soil at a lower level.

The four characteristics of the Spanish Mediterranean garden—fresh surroundings, fragrant air, color and movement at different levels—are combined here.

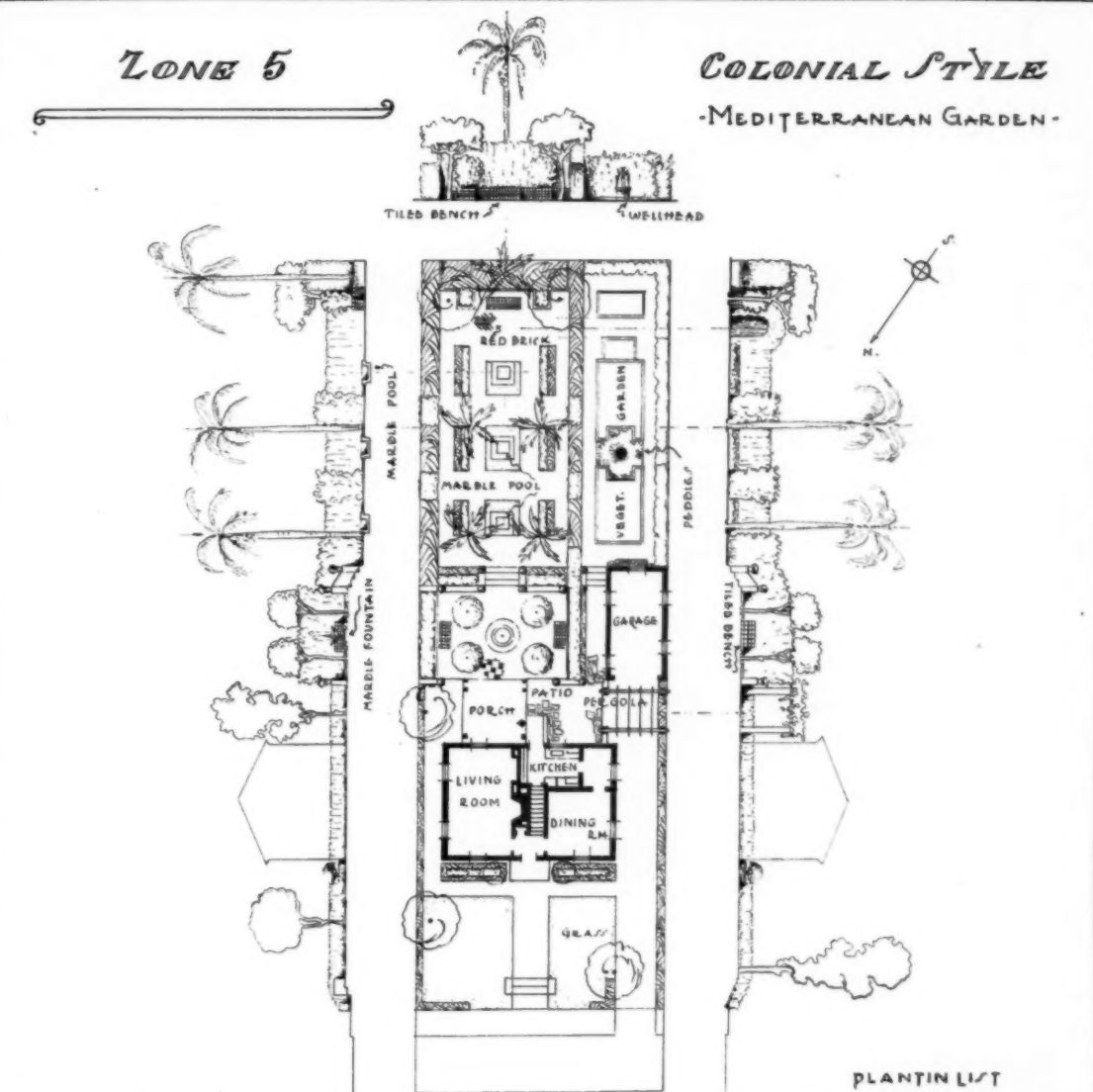
The author would like his readers to consider the view which the garden offers, looking from the porch toward the bench at the end; the freshness which may be enjoyed in the orange patio, accompanied by the murmur of the fountain as the water falls into its marble bowl; the air perfumed by the heliotropes growing under the small balconies which look onto the red patio, and by the pittosporums which surround them, as well as by the orange blossoms and jasmines which cover the near-by pergola. Also worthy of note is the view offered from the bench at the end of the garden toward the fountain, which plays under the bower of the orange trees, growing there on the highest plane.

Maximino Alvarez-laviada.

ZONE 5

COLONIAL STYLE

-MEDITERRANEAN GARDEN-

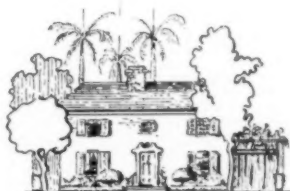


5' 0' 10' 20'

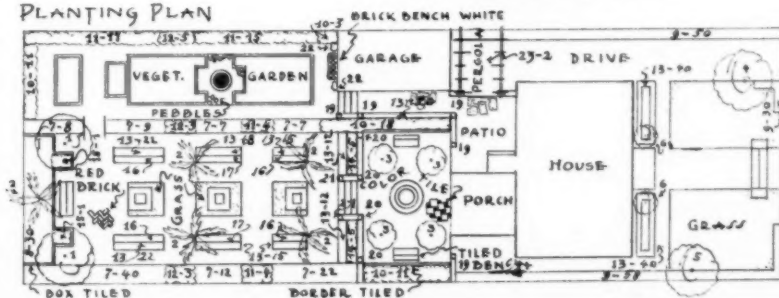
SCALE: 1/16" EQUALS 1'-0"

NOTE:

THE FLOOR TILED IS WHITE AND ORANGE. THE BORDER TILED ARE WHITE, ORANGE AND BLUE. THE BOX AND TILED BENCH AT THE END OF THE GARDEN ARE WHITE AND BLUE. THE WELLHEAD IS WHITE AND RED BRICK.



PLANTING PLAN



PLANT LIST

- KEY LATIN NAME
- TREES -
- 1 PLATANUS ORIENTALIS (PLANE)
 - 3 CITRUS AURANTIUM (ORANGE)
 - 4 ROBINIA PSEUDOACACIA (BLACK LOCUST)
 - 5 MAGNOLIA GRANDIFLORA
 - 6 LAURUS NOBILIS (SWEET BAY)
- PALMS -
- 2 ROYAL PALM (ROYAL PALM)
- EVERGREENS -
- 7 CUPRESSUS MACROCARPA FASTIGIATA (MONTEBREY)
 - 8 CUPRESSUS MACROCARPA
 - 9 MYRTUS COMMUNIS (MYRTLE)
 - 10 PITTOSPORUM TOBIIRA
 - 11 NEROLIUM OLEANDER. FLS. WHITE
 - 12 N. OLEANDER. FLS. PINK
 - 13 DUXUS JEMPERVIRENS PYRAM.
 - 14 HYDRANGEA MACROPHYLLA
 - 15 DAPHNE LAUREOLA (ESPURCE)
- FLOWER BEDS -
- 16 AUBRETTIA DELTOIDEA (FLS. LILAC AND IDERIS JEMP. (FLS. WHITE)
 - 17 AUBRETTIA BOUG. (FLS. BLUE)
- FLOWER POTS -
- 19 PELARG. HORTORUM (FLS. RED)
 - 20 CALENDULA OFFIC. (FLS. ORANGE)
 - 21 PELARGONIUM HORT. (FLS. WHITE)
- VINES -
- 22 HELIOTROPIMUM PERUVIANUM
 - 23 J. NUDIFLORUM (FLS. WHITE)

Letters from Readers

DDT POSSIBLE CONTROL OF EUONYMUS SCALE.

In the issue of the American Nurseryman for December 15, 1945, there appeared an article, "DDT Used to Control Boxwood Leaf Miner." I used the formula during the emergency period of 1946 with amazing results. Although the single application, which was made before the midges emerged, was followed by showers and damp weather, the control was highly satisfactory.

Now there is the possibility that DDT may be effective against that pest of euonymus—euonymus scale. I offer the following quotation from a letter from Dr. C. C. Hamilton, entomologist, New Jersey agricultural experiment station.

"While I have not done any actual experimental work in control of the euonymus scale with DDT, my experience in controlling other scale insects, some of which are similar in their life histories and habits, using DDT, would indicate to me the probability that DDT should offer a highly satisfactory method of controlling this pest. My first suggestion would be to clean out all badly injured and heavily infested portions of euonymus plants, particularly if they are of the ground variety. Then starting about the middle of May, depending upon locality and the time when the scale insects will be hatching, apply a spray of DDT so that

there is the equivalent of one pound of actual DDT per hundred gallons of spray. This would amount to two pounds of a fifty per cent wettable powder or two quarts of an emulsion containing twenty-five per cent DDT. The spray should be thoroughly applied, and unless heavy rains occur to wash off the DDT, I believe it would be effective against most of the young hatching from eggs of the first brood. If there is some question as to whether two applications should be made, I should suggest making the first one a little earlier and the second one about three weeks after the first. In other words, it is desirable to have the DDT on in plenty of time so as to kill the first young."

Euonymus, especially the variety *vetulus*, has been a most desirable evergreen vine, except for the inevitable scale. If results prove as satisfactory as seems probable, euonymus will be restored to favor with growers and landscape men.

George Jennings.

TIME TO LAY UP RESERVES.

Some sage of the past has said that, "Man learns from history that man learns nothing from history." For the mass of mankind that may be true, but for some individuals and some groups it is frequently untrue.

It is to be hoped that the nurserymen of this country may be one of

the groups for whom this maxim is untrue. It is to be hoped that at some future date when an equilibrium is again achieved between supply and demand in the nursery stock market, most nursery concerns will have built up emergency reserves so that they will be able to carry through a year or two of rough going without going to their bankers to borrow money to lose. Most bankers worthy of the name will not loan money to lose, not knowingly. Besides, the only kind of money that it is safe for any business to lose is its own money—money that it has acquired and laid aside for that purpose while the going was good enough so that proper reserves could be built.

Are we not now right in the midst of that period when nurseries should be laying up the reserves to take them through the less lush period that is bound to come sometime? We think so.

Every business must figure out for itself just what its reserve requirements properly should be. One nurseryman recently stated that he thought it should be one-third of his average annual volume for the last 5-year period. Maybe that is the right answer for him. We wouldn't know, because we don't know enough about the details of his business. But we are convinced that this is the proper time to be figuring and planning so that reserves will be adequately available when the time of need arises.

A Nurseryman.

INSTALL HIGH-SPEED SAW.

In an effort to hold packing costs to customers within reasonable figures, the Jewell Nurseries, Inc., Lake City, Minn., recently purchased an electrically operated saw.

This machine was purchased from the Equipment Engineering Co., St. Charles, Ill., and is known as a Wilson 5-horsepower high-speed radial cutting machine. It was installed in the boxing department of the main nursery about three months ago and is being used to cut materials for crates and boxes and also for working wood for general maintenance and repair purposes.

John Cronin, the operator, after three months of operation of this machine states that he has cut more material than he could cut in a year with the discarded equipment. He says that the work is also much more accurate. He expressed happiness over the ease of handling and versatility of the high-speed saw.

LORRAINE NURSERIES are being operated at Watertown, Conn., by Mr. and Mrs. Anthony Brody.



High-speed Saw Used by Wholesale Nursery to Reduce Packing Costs.

Now is the time to buy FALL BULBS

TULIPS

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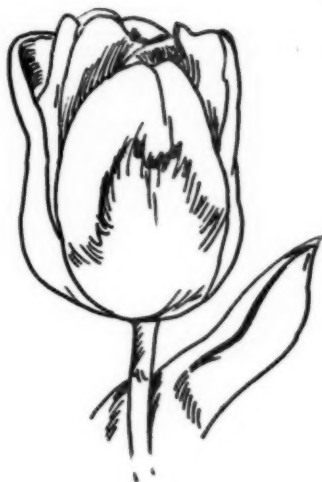
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"The best ever received."—Wyoming.

"I want to tell you that all the bulbs you shipped me were the finest I have ever received from anywhere and I could have sold a lot more."—Nebraska.

"I am well satisfied with the size and quality."—Washington.

"The bulbs are fine and of good size and I am well pleased with them."—Ohio.

"The bulbs are the nicest we ever had."—Kansas.

"I received my tulips and hyacinths late yesterday afternoon and they were just as fine as I've ever seen."—Oklahoma.

"This is nice stock and we would like for you to keep us in mind for bulbs next year"—Missouri.

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Plant Notes Here and There

By C. W. Wood

A reader who has a contract to plant a blue garden this spring asks for a selection from among the more common flowers. As the reply might interest others, it is included here, with a few explanatory notes.

Excepting some of the blue-flowered bulbs which cannot well be planted in spring, the season could be started with forget-me-nots and the Virginia cowslip, *Mertensia virginica*. Both could be used in quantity if provisions were made to have their areas occupied by other things after they were through blooming. It may be that I never handled the *mertensia* correctly, for it never gave me permanently satisfactory results when it was planted in the wild garden or any place where it had to take care of itself. On the other hand, in cultivated areas it is not only permanent, but it is a perennial joy. In sections more temperate than northern Michigan, one could use *Lithospermum prostratum* in one of its forms as a ground cover.

Several tall-growing plants, including *Anchusa italica*, garden heliotrope or valerian and delphinium, could form the background. In front of these, *Cynoglossum nervosum* and *Salvia farinacea* would form a connecting link. These would cover most of the season with shades of blue. and the lovely *Salvia azurea grandiflora* could be used to glorify late summer and autumn.

Campanula Rotundifolia.

I hesitate before entering into a detailed discussion of a plant as well known as *Campanula rotundifolia*, until I remember the number of approving letters that usually come in after such appearances in print. And in the present case I also remember that, despite a supposedly wide popularity in gardens, not half the story of this plant is known, nor are all its garden possibilities appreciated.

The cosmopolitan harebell, *Campanula rotundifolia*, which circles the globe in the northern hemisphere, holds much interest for plant students as well as much value to gardeners. As it spreads across North America, Europe and Asia, it assumes many forms, no doubt because of the different environments it encounters. The variations are so great, in fact, that a survey of the species throughout its range becomes an absorbing task. That the limits of the species, and especially of its varieties, are not

clearly defined merely adds to the pleasure the curious person can derive from such an inquiry, provided he avoids the arguments which certain botanists have had and are having over what is and what is not *C. rotundifolia*. It would be folly, of course, for a mere gardener like me to enter into a field so confused; yet there are a few observations on the garden behavior and uses of some of the forms of *C. rotundifolia* which may be of interest.

First is the question of soil. In nature, plants are found in all sorts of soils, from the lean sands of the lake shores to the humus-filled soils of woodlands. And if one observes closely, he will find, in addition to the more apparent differences in heights of plants, branching habits and sizes and colors of flowers, a wide variation in texture of the leaves, hairiness, or rather pubescence, of the stems and divergences of the calyx lobes. The last two characteristics are the principal ones used by botanists in splitting up the species into the numerous forms which are seen in plant lists.

Other characteristics, however, such as height of plant and color and size of flower, are factors which

govern a plant's usefulness as a garden subject. At least the first of these can be made to conform, at least partially, to the gardener's wishes by proper manipulation of the plant's growing medium. If dwarf growth is desired, *Campanula rotundifolia* should be given a lean sand. I have grown it in pure lake sand, and it remained in perfect health over a long period, never exceeding four inches in height. If luxuriant growth is desired, the plants may be given shade and a rich soil, particularly one full of leaf mold. Robust forms should then attain a stature of two feet or more. Gradations between these two extremes may be obtained by manipulation of soil and exposure. There are, however, forms of nature which keep fairly constant to their natural stature for two or three generations after being brought into the garden, no matter what their diet may be. That last remark brings up the factor of retrogression, which every observant gardener must have noticed.

A noteworthy example of retrogression is the form known as *C. scheuchzeri*. This variation of *C. rotundifolia* was set aside as a true spe-

[Continued on page 42.]

EVERGREENS

| | Per 100 | Per 1000 |
|---|---------|----------|
| Juniperus Andorra | | |
| 6 to 8 ins. (2½-in. rose pots)..... | \$20.00 | \$175.50 |
| 8 to 10 ins., xx..... | 22.50 | ..... |
| Juniperus Japonica Procumbens | | |
| 12 to 15 ins., xx..... | 40.00 | ..... |
| Black Hills Spruce | | |
| 6 to 9 ins., xx..... | 22.50 | 200.00 |
| 9 to 12 ins., xx..... | 27.50 | 250.00 |
| Colorado Blue Spruce (seedlings) | | |
| 6 to 9 ins., xx..... | 22.50 | 200.00 |
| 9 to 12 ins., xx..... | 30.00 | 275.00 |
| Taxus Cuspidata | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |
| 6 to 8 ins. (cut back from beds)..... | 35.00 | 325.00 |
| Taxus Cuspidata Browni | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |
| Taxus Cuspidata Intermedia | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |
| Taxus Media | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |
| Taxus Media Andersoni | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |
| Taxus Media Hicksi | | |
| 2½-in. rose pots, 1-yr..... | 25.00 | 225.00 |

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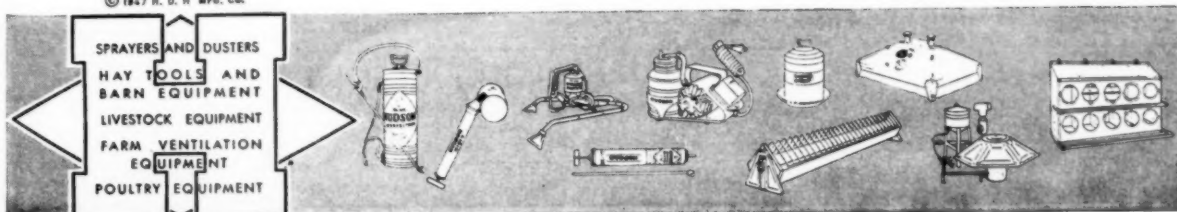
You have "tested and proved" their salability yourself. You have seen customers come into your store, pre-sold on the Hudson line right from the start. They have used Hudson sprayers, dusters, poultry and livestock equipment themselves. Or they have heard good things about Hudson equipment from other satisfied users. Or they have read Hudson advertising in their favorite magazine and are looking for Hudson quality.

Such acceptance makes for easy sales—profitable sales. Such acceptance builds sure repeat sales. Turn this acceptance into extra profits for you—make Hudson your leading equipment line.

H. D. HUDSON MANUFACTURING COMPANY
589 East Illinois Street, Chicago 11, Illinois

THE HUDSON PLAN FOR EXTRA PROFITS
FIRST QUALITY ONLY—ALWAYS—
 To make Lifetime Customers for Dealers
EQUIPMENT OF EXCLUSIVE DESIGN
 Best for Users—Most Profitable for You
BASIC INVENTORIES OF LEADING LINES
 To Assure Fast Turnover, Bigger Net Profits
STEADY ADVERTISING TO USERS—
 To Send More Buyers to Your Store
PRACTICAL POINT-OF-SALE HELP—
 To Pull Them in and Sell Them Fast

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M. R. CASHMAN BUYS SHERMAN NURSERY CO.

M. R. Cashman, Cashman Nurseries, Inc., Owatonna, Minn., has made an agreement to buy all shares of stock in the Sherman Nursery Co., Charles City, Ia., and will take over the business July 1. The name of the latter firm will be retained, as will all personnel now employed by it.

The Sherman Nursery Co. was founded by the late E. M. Sherman in 1884 and incorporated under the laws of Iowa in 1888. In 1932 the management of the nursery was turned over to Ellis & Ellis, Inc., and at present it is owned by this corporation. The late John F. Christiansen served as president until his death last February. H. M. Ellis is the present president, and other officers are: Vice-presidents, C. C. Smith and H. J. Deems; secretary, M. W. Swartz, and treasurer, E. L. Walliser.

Starting with a small tract of land, the Sherman Nursery Co. acquired land until the acreage grew to 600. A portion of the land was recently sold to the Dr. Salisbury Laboratories, and there are now approximately 500 acres in the nursery. A stone office building was constructed in 1908 from native limestone quarried from the nursery grounds. A large underground storage cellar was constructed in 1910. Greenhouses consist of approximately 75,000 feet of glass producing cut flowers for wholesale. Two sidings of the Charles City Western railroad aid the nursery in the conduct of its retail, wholesale and mail-order business.

M. R. Cashman, who is 71 years old, served as president of the American Association of Nurserymen in 1924 and was on its board of directors for eleven years. Mr. Cashman was a member of the Minnesota senate for eight years and is a member of the Owatonna chamber of commerce and the Rotary Club there. Dividing the Cashman interests at Owatonna some years ago, M. R. Cashman continued the greenhouses and florists' business, while his brother, the late Thomas E. Cashman, continued the nurseries. Subsequent to the latter's death, M. R. Cashman took over the management of the Cashman Nurseries, Inc., in behalf of his sister-in-law.

One of Mr. Cashman's sons, Richard, who is a greenhouse operator at Owatonna, will be an adviser in operations of the Sherman Nursery Co. Two other sons, Charles and Robert, who will be graduated this year from the University of Minnesota with degrees in law and accounting, respectively, may also become associated

CLEARANCE SALE OF FRUIT TREES

From Cold Storage in Dormant Condition

| APPLE | | | |
|-----------------------|--------|---------|----------|
| | Per 10 | Per 100 | Per 1000 |
| 2-yr., 11/16-in. cal. | \$5.00 | \$45.00 | \$400.00 |
| 2-yr., 9/16-in. cal. | 4.00 | 35.00 | 300.00 |
| 2-yr., 7/16-in. cal. | 3.00 | 25.00 | 200.00 |
| 1-yr., 4 to 6 ft. | 3.50 | 30.00 | 250.00 |
| 1-yr., 3 to 4 ft. | 3.00 | 25.00 | 200.00 |

| Varieties | | |
|----------------------|--------------------|--------------------|
| Delicious | Jonathan | Red McIntosh |
| Double Red Delicious | Liveland Raspberry | Smokehouse |
| Double Red Jonathan | Lodi | Stayman |
| Double Red Spy | Maccoun | Sweet Paradise |
| Double Red Stayman | Maiden Blush | Turley |
| Early Harvest | M. B. Twig | Winesap |
| Early Red Bird | N. W. Greening | Winter Banana |
| Grimes Golden | Paragon | Yellow Delicious |
| Hyslop Crab | | Yellow Transparent |

| PEACH | | |
|---------------|--------|---------|
| | Per 10 | Per 100 |
| 4 to 6 ft. | \$5.00 | \$45.00 |
| 3 to 4 ft. | 4.00 | 35.00 |
| 2 to 3 ft. | 2.50 | 20.00 |
| 18 to 24 ins. | 2.00 | 15.00 |

| Varieties | | | |
|--------------|--------------------|-------------|-----------|
| Afterglow | Champion | Heath Cling | Mayflower |
| Amador | Crawford's Early | Hiley | Red Bird |
| Belle of Ga. | Double Red Elberta | Indian | Redhaven |
| Brackett | Fireglow | J. H. Hale | Slappy |
| Carman | Golden Jubilee | Krummel | |

| CHERRY | | |
|-----------|---------|----------|
| | Per 10 | Per 100 |
| 11/16-in. | \$12.00 | \$100.00 |
| 9/16-in. | 9.50 | 85.00 |
| 7/16-in. | 8.50 | 75.00 |

| Varieties | | |
|-----------------|----------------|----------|
| Bing | Early Richmond | Napoleon |
| Black Tartarian | Governor Wood | Schmidt |
| Early Purple | Lambert | Windsor |

PEAR

Sizes and prices same as for Cherry in the following varieties:
Bartlett, Clapp's, Garber, Kieffer, Seckel.

PLUM

Jumbo Size 6 to 7 ft., 1 to 1 1/2-in. cal., \$16.00 per 10, \$145.00 per 100; 4 to 6 ft., \$9.00 per 10, \$80.00 per 100; 3 to 4 ft., \$7.50 per 10, \$70.00 per 100; 2 to 3 ft., \$5.00 per 10, \$45.00 per 100.

Abundance, Burbank, European Prune, Mammoth Golden, Red June, Damson, Wickson.

Write for prices on Blueberries, Grapes, Raspberries and Boysenberries.

WAYNESBORO NURSERIES

Waynesboro, Virginia

THUJA GLOBOSA

1000 18 to 24 inches, \$1.50 each

These are fine evergreens, well developed and of good color.

THE WESTMINSTER NURSERIES

Westminster, Md.

CANADIAN HEMLOCKS

No loss when you get them in the bands they grew in; just set them out as they are.
2 to 18 ins., in 2 to 3-inch bands.

Now booking 1947 orders.

CALVIN S. GROBAKER

115 Beechwood Ave., Catonsville 28, Md.

TAXUS CUSPIDATA

(spreading)

2-yr. bed-grown, 9 to 12 ins.

\$25.00 per 100; \$225.00 per 1000.

LILACS, French Hyb.

1-yr., best varieties.

\$25.00 per 100; \$225.00 per 1000.

DEERFIELD NURSERIES

Deerfield Street P.O., N. J.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

MILFORD

DELAWARE

with the business. A fourth son, Michael, is a student at the Merchant Marine Cadet Academy at Kings Point, N. Y.

PLAINS ASSOCIATION MEETS.

Emphasizing the need for nurserymen to be persistent in their soil conservation practices, Jesse Breedlove, Breedlove Nurseries, Tyler, Tex., president of the Texas Association of Nurserymen, was principal speaker at a dinner meeting of the Plains Nurserymen's Association, at Lubbock, Tex., April 15. Donald D. King, of Lubbock, president of the Plains association, presided at the meeting.

The principal item at the business session, which followed a program of entertainment, was the adoption of a constitution and a code of ethics. The constitution provides for an annual meeting in May and a meeting of the board of directors one week before the annual convention of the Texas Association of Nurserymen. Paul M. Bruce, of Alanreed, Tex., and K. M. Dunagan, of Carlsbad, N. M., were elected to fill vacancies on the board of directors.

VIRGINIA MEETING.

Principal feature of the annual meeting of the Virginia Nurserymen's Association, August 12 to 14, at the George Mason hotel, Alexandria, will be a study course in landscape designing under J. P. Porter, of Cornell University, Ithaca, N. Y. Tours at Alexandria and Washington will be arranged to give Professor Porter the opportunity to point out the good and bad points of certain landscape developments.

KENNETH ZAKARIASEN has joined his brother, Russell, in the operation of the Homedale Nursery, east of Hopkins, Minn. Both brothers served as officers in the navy during the war. Russell Zakariasen established the nursery after his release from service last year.

HAIL broke about 15,000 feet of glass out of approximately 70,000 square feet in the greenhouses of the Sherman Nursery Co., Charles City, Ia., April 22. The hail reached the size of a golf ball, and the ground was well covered the greater part of the morning. The glass has been replaced. Some loss was suffered in the cut of rose blooms, but most of the plants in the greenhouses were saved. The late season and wet weather have delayed digging nursery stock from the fields. Mexican labor is being used to supplement the local supply.

QUALITY LINING-OUT STOCK

For Immediate and Later Shipment

There is still ample time to plant this stock, as all items are in pots or were dug last Fall and trenched in to enable late shipping and planting this Spring. Items in capital letters are our own introductions. Ask for descriptive list.

| | Per 100 | Per 1000 |
|---|---------|----------|
| Acer pal. purpureum, sdg., 2 1/4-in. pot, 10 to 12 ins. | \$40.00 | |
| Aucuba japonica, 4-in. pot, 10 to 12 ins. | 40.00 | |
| AZALEA HINO-CRIMSON, 2 1/4-in. pot. | 25.00 | |
| 60 Cornus fl. pendula, 1-yr., 4-in. pot, 10 to 12 ins. | 80.00 | |
| 80 Cornus xanthocarpa, 1-yr., 4-in. pot, 10 to 12 ins. | 80.00 | |
| Crataegus pauli, grafts, 12 to 15 ins. | 50.00 | |
| 80 Crataegus pauli, 1-yr., 4-in. pot, 15 to 18 ins. | 80.00 | |
| 70 Fagus rotundifolia, 1-yr., 4-in. pot, 12 to 18 ins. | 90.00 | |
| Hamamelis mollis, grafts, 8 to 10 ins. | 65.00 | |
| Ilex crenata convexa, 2 1/4-in. pot, 6 to 8 ins. | 15.00 | |
| Laurocerasus schipkaensis, 4-in. pot, 10 to 12 ins. | 40.00 | |
| Malus in variety (Fl. Crab), 1-yr. X, 1 to 2 ft. | 30.00 | |
| 1-yr. X, 2 to 3 ft. | 35.00 | |
| Retinospora plumosa, 1-yr. X, 6 to 8 ins. | 15.00 | |
| Retinospora plumosa aurea, 1-yr. X, 6 to 8 ins. | 15.00 | |
| Rhododendron hybrids, grafts | 100.00 | |
| Taxus cusp. intermedia, 2-yr. X, 6 to 8 ins. | 30.00 | |
| Taxus cusp. spreading, 1-yr. X, 6 to 8 ins. | 17.50 | \$150.00 |
| Taxus cusp. Vermeulen, 2-yr. XX, 6 to 8 ins. (light) | 25.00 | |
| 2-yr. XX, 6 to 8 ins. | 30.00 | 275.00 |
| 2-yr. XX, 8 to 10 ins. | 35.00 | 325.00 |
| 2-yr. XX, 10 to 12 ins. | 40.00 | |
| 3-yr. XX, 6 to 8 ins. | 35.00 | |
| Taxus media hatfieldi, 1 yr. X, 6 to 8 ins. | 17.50 | 150.00 |
| Taxus media hicksi, 1-yr. X, 6 to 8 ins. | 17.50 | 150.00 |
| TAXUS MEDIA PYRAMIDALIS, 2 1/4-in. pot. | 35.00 | |
| TAXUS MEDIA PYRAMIDALIS ROBUSTA, 2 1/4-in. pot. | 35.00 | |
| TAXUS MEDIA STRICTA, 2 1/4-in. pot. | 35.00 | |
| TAXUS MEDIA STRICTA VERIDIS, 2 1/4-in. pot. | 35.00 | |
| Thuja occ. nigra, 1-yr. X, 6 to 8 ins. | 15.00 | 140.00 |
| TSUGA CAN. COMPACTA, No. 2, grafts, 6 to 8 ins. | 65.00 | |
| TSUGA CAN. PYRAMIDALIS, grafts, 8 to 10 ins. | 125.00 | |
| Viburnum burkwoodi, 2 1/4-in. pot, 4 to 6 ins. | 25.00 | |
| 50 Viburnum burkwoodi, 4-in. pot, 12 to 18 ins. | 100.00 | |
| Viburnum rhytidophyllum, 3-in. pot, 8 to 10 ins. | 40.00 | |
| WISTARIA MULTIJUGA (own sel.), 2 1/4-in. pot. | 25.00 | |
| Wistaria shironoda (white), 2 1/4-in. pot. | 25.00 | |

ROOTED CUTTINGS

| | | |
|--|-------|-------|
| Ilex crenata convexa, 4 to 6 ins. | 9.00 | 75.00 |
| 6 to 8 ins. | 10.00 | 80.00 |
| Retinospora pisifera aurea, 6 to 8 ins. | 8.00 | |
| Retinospora plumosa, 6 to 8 ins. | 8.00 | |
| Retinospora plumosa aurea, 6 to 8 ins. | 8.00 | |
| Taxus cusp. brevifolia, 4 to 6 ins. | 8.00 | 75.00 |
| 6 to 8 ins. | 8.50 | 80.00 |
| Taxus cusp. spreading, 6 to 8 ins. | 8.50 | 80.00 |
| Taxus media hatfieldi, 4 to 6 ins. | 8.50 | 80.00 |
| Taxus media kelseyi, 4 to 6 ins. | 8.50 | 80.00 |
| 6 to 8 ins. | 9.00 | 85.00 |
| TAXUS MEDIA KELSEYI UPRIGHT, 4 to 6 ins. | 13.00 | |
| 6 to 8 ins. | 15.00 | |
| Thuja occ. globosa novum, 6 to 8 ins. | 8.00 | |
| Thuja occ. nigra, 6 to 8 ins. | 8.00 | |

Cash with order please.

JOHN VERMEULEN & SON, Inc.

Westbury, L. I., N. Y.

Telephone 328

AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE,
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON, D. C.

NAME A. A. N. MARKET, PUBLICITY COMMITTEES.

Regional subcommittee assignments have been completed by the market development and publicity committee of the American Association of Nurserymen, to insure that the views and wishes of all regions are given proper consideration in the adoption of the trade promotion program and in the timing of publicity releases, etc., so that they will be effective in all regions. Approximate dates of regional planting seasons are now being determined by the subcommittees. At the Boston convention, a meeting of the central committee and all subcommittee members will be arranged with the public relations counsel, Verne Burnett.

Members of the central market development and publicity committee are C. S. Burr, C. R. Burr & Co., Inc., Manchester, Conn., chairman; D. D. Wyman, Bay State Nurseries, Inc., North Abington, Mass.; Wayne Ferris, Earl Ferris Nursery, Hampton, Ia.; Les Engleson, C. W. Stuart & Co., Inc., Newark, N. Y., and Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, Cal.

Regional subcommittees are as follows:

Region 1—Donald D. Wyman, Bay State Nurseries, Inc., North Abington, Mass., chairman; Luke C. May, Lexington Nurseries, Inc., Lexington, Mass.; Homer K. Dodge, Landscape Service Co., Framingham, Mass.; Les Engleson, C. W. Stuart & Co., Inc., Newark, N. Y., and Harold Seyler, B. F. Barr Nurseries, Lancaster, Pa.

Region 2—Louis E. Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky., chairman; Don Hastings, Hastings Nurseries, Atlanta, Ga., and M. L. Harkey, Harkey Nurseries, Charlotte, N. C.

Region 3—Jess Foster, Brown Deer Nurseries, Milwaukee, Wis., chairman; Charles Greening, Greening Nurseries, Monroe, Mich., and Frank Turner, Berry Hill Nurseries, Springfield, O.

Region 4—Wayne Ferris, Earl Ferris Nursery, Hampton, Ia., chairman; M. R. Cashman, Cashman Nurseries, Inc., Owatonna, Minn., and Les Sjulin, Inter-State Nurseries, Hamburg, Ia.

Region 5—E. L. Baker, Baker Bros. Nursery, Fort Worth, Tex., chairman; Steve Verhalen, Verhalen Nursery Co., Scottsville, Tex., and Clark Kidd, Arp Nursery Co., Tyler, Tex.

Region 6—Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, Cal., chairman; Paul Moulder, Moulder Bros., Glendale, Cal.; Walter Lammerts, Rancho

del Descanso, La Canada, Cal.; Thomas Sands, Del Rancho Fortuna, McFarland, Cal.; Avery H. Steinmetz, Portland Wholesale Nursery Co., Portland, Ore., and Robert Beam, May Nursery Co., Yakima, Wash.

COMMITTEES PLAN FOR A. A. N. CONVENTION.

Under the direction of Donald D. Wyman, executive chairman, members of the committees for the seventy-second annual convention of the American Association of Nurserymen, July 21 to 24, at Boston, Mass., are rapidly completing plans for the event. Richard M. Wyman, Wyman's Framingham Nurseries, Framingham, Mass., is handling convention funds as treasurer of the general committee.

C. Russell Jacobus, Cedar View

NORTHERN-GROWN EVERGREENS FOR LINING OUT

| | Per 100 | Per 1000 |
|--------------------------------|---------|----------|
| Canada Hemlock | | |
| 4 to 8-in. seedlings | \$ 4.00 | \$ 25.00 |
| 8 to 12-in. seedlings | 5.00 | 40.00 |
| 12 to 18-in. seedlings | 20.00 | .... |
| 18 to 24-in. seedlings | 30.00 | .... |
| 4 to 8-in. transplants | 20.00 | 180.00 |
| Balsam Fir | | |
| 4 to 8-in. seedlings | 5.00 | 30.00 |
| 8 to 12-in. seedlings | 8.00 | 60.00 |
| American Arborvitae | | |
| 4 to 8-in. seedlings | 3.00 | 20.00 |
| 8 to 12-in. seedlings | 5.00 | 40.00 |
| Oldfield Common Juniper | | |
| 4 to 8-in. seedlings | 6.00 | 50.00 |
| 8 to 12-in. seedlings | 10.00 | 90.00 |
| Eastern Red Cedar | | |
| 4 to 8-in. seedlings | 5.00 | 40.00 |
| 8 to 12-in. seedlings | 10.00 | 80.00 |

Send for complete list of first-quality collected Northern-grown Hardy Native Trees, Shrubs and Plants.

ISAAC LANGLEY WILLIAMS

P. O. Box 352 Exe'or, N. H.

COLORADO BLUE SPRUCE

6-yr. T., 6 to 8 ins., \$75.00 per 1000;
3 to 5 ins., T., \$20.00 per 1000. 500 at
1000 rate. Beetle inspected.

W. W. DAMBACH

R. D. 1, New Brighton, Pa.
Phone: Ellwood City 4957R2

Trees, Evergreens, Shrubs Fruit Trees

Write For Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

Farm, Upper Montclair, N. J., chairman of region 1 of the A. A. N., is honorary chairman, and executive assistants are Charles S. Burr, C. R. Burr & Co., Inc., Manchester, Conn., and V. J. Vanicek, Rhode Island Nurseries, Newport, R. I.

The general committee is being assisted by the presidents of the New England, New Jersey, New York and Pennsylvania nurserymen's associations, respectively, Peter J. Cascio, West Hartford, Conn.; George C. White, Bobbink & Atkins, East Rutherford, N. J.; John W. Kelly, Kelly Bros. Nurseries, Dansville, N. Y., and Wilbur I. Nisley, Walter, Nisley & Walter, Harrisburg, Pa.

Members of the various operating committees are as follows:

Transportation—Luke C. May, Lexington Nurseries, Lexington, Mass., chairman; Isaac L. Williams, Clifford D. Corliss, Walter Stranger, Arthur Webster, George Fellows and Henry Verkade.

Publicity—Homer K. Dodge, Landscape Service Co., Framingham, Mass., chairman; Richard Holmes, Harold Seyler and William Clark.

Exhibition—Lloyd A. Hathaway, Little-

EVERGREEN ROOTED CUTTINGS AND TRANSPLANTS

We are now booking orders for spring and summer delivery. Get our full list. Tr.—Transplants R.C.—Rooted Cuttings

| | | | |
|---|-----------------------|---------|----------|
| Abella Grandiflora | 10 to 12 ins., X..... | \$15.00 | .... |
| Abella Grandiflora | 12 to 15 ins., X..... | 20.00 | .... |
| Arborvitae Globosa | | | |
| Globe Arb., R.C. | | 8.00 | \$ 75.00 |
| Arborvitae Pyramidalia | | | |
| Pyramidal Arb., R.C. | | 8.00 | 75.00 |
| Arborvitae, Tom Thumb | | | |
| R.C. | | 7.00 | 65.00 |
| Arborvitae Nigra, R.C. | | 8.00 | .... |
| Juniper Communis Depressa | | | |
| Plumosa, Andorra Juniper, R.C. | | 9.00 | .... |
| Juniper Hetzi | | | |
| Blue Pätzer Juniper, R.C. | | 14.00 | .... |
| Retinospora Filifera | | | |
| Thread Retinospora, R.C. | | 7.00 | .... |
| Retinospora Fisifera Aurea, R.C. | | 7.00 | .... |
| Retinospora Plumosa, R.C. | | 7.00 | 65.00 |
| Retinospora, Gold Dust, R.C. | | 8.00 | .... |
| Retinospora Squarrosa | | | |
| Veltechl, R.C. | | 7.00 | .... |
| Retinospora Squarrosa | | | |
| Veltechl, Tr. | | 18.00 | .... |
| Retinospora Plumosa | | | |
| 6 to 8 ins., Tr. | | 18.00 | .... |
| Taxus Baccata Repandens, R.C. | | 9.00 | .... |
| Taxus Cupidata, R.C. | | 9.00 | 85.00 |
| Taxus Cupidata Capitata, R.C. | | 14.00 | 135.00 |
| Taxus Cupidata Nana, R.C. | | 12.00 | .... |

ESHAM'S NURSERIES
Frankford, Del.

HEMLOCKS

KALMIA, RHODODENDRON, AZALEA

CURTIS NURSERIES

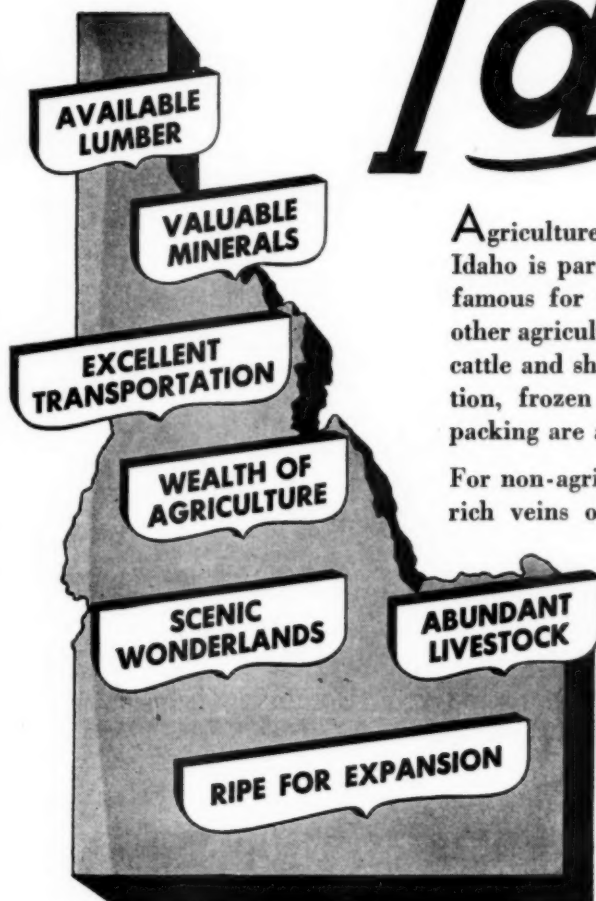
CALLICOON NEW YORK

Host for Pennsylvania
Nurserymen's Association
Summer Meeting August 6.

FAIRVIEW EVERGREEN NURSERIES
Fairview, Pa.



Idaho*



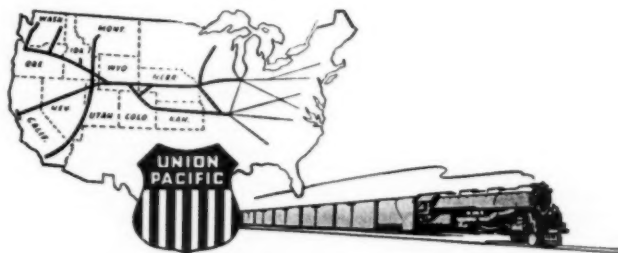
Agriculture being the life-blood of many industries, Idaho is particularly fortunate in that respect. World-famous for the Idaho potato, it has developed many other agricultural activities. Grains, vegetables, fruit . . . cattle and sheep are produced in abundance. Dehydration, frozen foods processing, dairying, canning and packing are among the state's flourishing industries.

For non-agricultural industries, Idaho is endowed with rich veins of minerals. Numerous manufacturers of stone, clay and glass products have established plants in Idaho. Lumber for building and wood products is available. Unsurpassed rail transportation is provided by Union Pacific.

As a vacation region, Idaho has a wonder-world of its own in Sun Valley . . . year-round sports center . . . the world famous primitive area . . . and in the scenic surroundings of Payette Lake.

Idaho is a young thriving state, ripe for further industrial development. It offers good living and working conditions, good schools, splendid cultural advantages . . . and its energetic citizens assure newcomers of a true western welcome.

* One of a series of advertisements based on industrial opportunities in the states served by the Union Pacific Railroad.



* Address Industrial Department, Union Pacific Railroad, Omaha 2, Nebraska, for information regarding industrial sites.

UNION PACIFIC RAILROAD

THE STRATEGIC MIDDLE ROUTE

field-Wyman Nurseries, Abington, Mass., chairman; Charles Hess, Fred Herbst, Jack Shore and Marinus Van der Pol.

Entertainment—Richard M. Wyman, Jr., Wyman's Framingham Nurseries, Framingham, Mass., chairman; Edmund Mezitt, and Floyd Oatman.

Registration—L. C. Vanderbrook, C. L. Vanderbrook & Son, Manchester, Conn., chairman; Cornelius Van Tol, and James A. Morrison, manager of the Boston convention bureau.

Seth L. Kelsey, Kelsey-Highlands Nursery, East Boxford, Mass., is chairman of the committee on decorations. Mrs. Helen Cascio, the Peter Cascio Nursery, West Hartford, Conn., will be assisted by the wives of committee members in the preparation of the ladies' program.

As chairman of the hosts for the Clam Diggers' Club, Joseph Chesnicka, Chesnicka Landscape Service, Westfield, Mass., will be assisted by Jack Brownell, Jac Bulk, Eugene Muller, Louis Wissenbach, Fred Noble, Lou C. Schubert, Joel Barnes, Peter Van Melle, Valteau C. Curtis, Howard Maloney and Harold Thurlow.

COVER ILLUSTRATION.

Gaylussacia Brachycera.

Gaylussacia brachycera, the box huckleberry, is a low, creeping broad-leaved evergreen shrub, with branches ascending to a height of only eight to ten inches or occasionally slightly more. It is native from Pennsylvania south to Virginia, Kentucky and Tennessee. Single plants have been reported as covering vast areas in Pennsylvania, spreading by creeping and underground stems.

The small evergreen leaves, one-half to one inch in length, are borne alternately on the stems. The margins are entire and usually slightly rolled under. The flowers and fruits are not outstanding from an ornamental standpoint.

The box huckleberry is hardy and prefers cool situations and moist peaty or sandy acid soil. It is tolerant of nearly full shade, but will do well in sunny exposures in the cooler regions.

It is not a plant used extensively in landscape plantings. Its use is limited mostly to rockeries, to wild gardens and for naturalizing in wooded areas. L. C. C.

JEWELL NURSERIES, INC., Lake City, Minn., suffered a severe loss from fire, April 25. Its largest warehouse, which contained eight carloads of lumber in addition to other merchandise, was a total loss.



Late orders given prompt attention. See our latest Wholesale List for special variety assortment for quick shipment.

Plan to stop at Princeton at the time of the National Convention.

PRINCETON NURSERIES

Phone: Princeton 1776

Princeton, N. J.

ROSES

No. 1 Field-grown at \$6.50 per 10, \$60.00 per 100, in the following varieties:

HYBRID TEAS

Betty Uprichard
Briarcliff
Caledonia
Condesa de Sastago
Dame Edith Helen
Edith Nellie Perkins
Editor McFarland
E. G. Hill

Golden Dawn
K. A. Viktoria
Lady Hillingdon
Luxembourg
Margaret McGredy
McGredy's Scarlet
Mrs. Charles Bell
Mme. Jules Bouche
F. K. Druschki, H. P.

Mrs. P. S. Du Pont
Pres. Hoover
Radiance, Pink
Radiance, Red
Sunburst
Talisman
White Radiance

CLIMBERS

American Pillar
Dr. W. Van Fleet
Talisman Climber

POLYANTHAS

Cecile Brunner
Chatillon
Golden Salmon
Ideal

WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

LINING-OUT STOCK OUR SPECIALTY . . .

Shade Tree Whips . . . a timely finished product saving 2 to 4 yrs.' growing effort . . . excellent variety.

A very complete line of
**ORNAMENTAL TREES, SHRUBS
and EVERGREEN SHRUBS,**
including many scarce items.

THOMAS B. MEEHAN CO.
DRESHER, PA.

Wholesale growers of SMALL FRUIT PLANTS

Grapes, Currants and Raspberries—
our specialty.
Hydrangea P. G.

FOSTER NURSERY CO., INC.
69 Orchard St. Fredonia, N. Y.

HESS' NURSERIES

Mountain View
New Jersey

NORTHERN COLLECTED EVERGREENS FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

STRAWBERRY AND OTHER SMALL FRUIT PLANTS

STRAWBERRY PLANTS

Per 25 Per 100 Per 250 Per 1000

| | | | | |
|--|--------|--------|--------|--------|
| Big Joe, Blakemore, Dunlap, Massey, Maytime, Mission- ary, Robinson, Suwannee, Temple | \$0.35 | \$1.15 | \$2.00 | \$7.00 |
| Catskill, Chesapeake, Dorsett, Fairfax, Fairpeaks, Gandy, Klondike, Midland, Premier, Redstar, Starbright | .40 | 1.25 | 2.25 | 8.00 |
| Mastodon, Gemzeta, Evb. | .65 | 2.00 | 4.25 | 15.00 |

No extra charge is made for the package or packing on Strawberry plant orders. Prices quoted are for delivery as wanted during the Spring 1947 shipping season, ending about June 1, and apply as follows:

| | |
|--|------------|
| 25 to 75 plants of one variety at the | 25 rate. |
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| | | | | |
|---|--------|--------|---------|--|
| Niagara (white): | | | | |
| 2-year, No. 1 grade | \$0.25 | \$1.75 | \$14.00 | |
| 1-year, No. 1 grade | .20 | 1.50 | 10.00 | |
| Catawba (mahogany), Moore's Dia- mond (white), Moore's Early (black), Portland (white), Worden (black): | | | | |
| 2-year, No. 1 grade | .30 | 2.25 | 17.00 | |
| 1-year, No. 1 grade | .25 | 1.75 | 12.00 | |
| Agawam (red), Brighton (red), Caco (red), Delaware (red): | | | | |
| 2-year, No. 1 grade | .35 | 2.50 | 20.00 | |
| 1-year, No. 1 grade | .30 | 2.25 | 15.00 | |

ASPARAGUS ROOTS

Per 25 Per 100 Per 250 Per 1000

| | | | | |
|---|--------|--------|--------|---------|
| Varieties: Paradise and Mary Washington | | | | |
| 3-year, No. 1 grade | \$1.25 | \$4.00 | \$8.75 | \$30.00 |
| 2-year, No. 1 grade | .75 | 2.50 | 5.25 | 18.00 |
| 1-year, No. 1 grade | .60 | 2.00 | 4.00 | 11.00 |

BUNTINGS' NURSERIES, INC.

RASPBERRIES

Per 10 Per 25 Per 100 Per 1000

| | | | | |
|------------------------------|--------|--------|--------|---------|
| Cumberland, No. 1 tips | \$1.00 | \$2.00 | \$6.00 | \$50.00 |
| Indian Summer, No. 1 suckers | 1.00 | 2.00 | 7.00 | 60.00 |
| Latham, No. 1 suckers | 1.00 | 2.00 | 6.00 | 50.00 |
| Newburgh, No. 1 suckers | 1.00 | 2.00 | 7.00 | 60.00 |
| St. Regis, No. 1 suckers | 1.00 | 2.00 | 6.00 | 50.00 |
| Sunrise, No. 1 suckers | 1.00 | 2.00 | 7.00 | 60.00 |

BLACKBERRIES

Per 10 Per 25 Per 100 Per 1000

| | | | | |
|-----------------------|--------|--------|--------|---------|
| Blowers, No. 1 R. C. | \$1.00 | \$2.00 | \$7.00 | \$60.00 |
| Alfred, No. 1 R. C. | 1.00 | 2.00 | 7.00 | 60.00 |
| Eldorado, No. 1 R. C. | 1.00 | 2.00 | 7.00 | 60.00 |

BOYSENBERRY PLANTS

Per 10 Per 25 Per 100 Per 1000

| | | | | |
|----------------------|--------|--------|--------|---------|
| 1-year, No. 1 plants | \$1.00 | \$2.00 | \$6.00 | \$50.00 |
|----------------------|--------|--------|--------|---------|

THORNLESS BOYSENBERRY

Per 10 Per 25 Per 100 Per 1000

| | | | | |
|----------------------|--------|--------|--------|---------|
| 1-year, No. 1 plants | \$1.00 | \$2.00 | \$6.00 | \$50.00 |
|----------------------|--------|--------|--------|---------|

RHUBARB ROOTS

Per 25 Per 100 Per 250 Per 1000

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|---|--------|---------|---------|---------|
| Varieties: Victoria and Myatts Linnaeus | | | | |
| 2-inch and up, forcing grade | \$3.50 | \$10.00 | \$24.00 | \$90.00 |
| 1 1/2 to 2-inch caliper | 3.00 | 8.50 | 20.00 | 75.00 |
| 1 to 1 1/2-inch caliper | 2.50 | 6.00 | 14.00 | 50.00 |
| 5/8 to 1-inch caliper | 2.00 | 5.00 | 11.00 | 40.00 |
| 1/2 to 5/8-inch caliper | 1.75 | 4.00 | 9.00 | 30.00 |

MACDONALD RHUBARB

Each Per 10 Per 25 Per 100

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|-----------------|--------|--------|---------|---------|
| No. 1 divisions | \$0.60 | \$5.00 | \$11.00 | \$40.00 |
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DUMMETT GOLDEN WEDDING.

Arthur and Anna Dummett, Bernardsville, N. J., celebrated their golden wedding anniversary, Sunday, April 27, at the home of one of their daughters, Mrs. Marie D. Schattman, Woodmere, L. I., N. Y., with a family gathering and supper.

They have six children, four daughters and two sons, all of whom attended with their families, from Milwaukee, Wis.; Delray Beach, Fla., and Bath, Staatsburg and Pelham, N. Y. They have ten grandchildren, the oldest of whom flew from Hanover, N. H., where he is attending Dartmouth College. Mrs. Dummett's sisters and brothers and Arthur Dummett's sister and cousins made almost a 100 per cent attendance of their relatives, about fifty in all.

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Trees to Replace Elms

While the Dutch elm disease is spreading less rapidly than was feared at the time its devastations appeared in the east, another deadly scourge, phloem necrosis, is affecting elms in a slowly widening area. Where these two diseases have wrought their destruction, replacement of American elm trees has already been necessary with other species.

Even in communities outside the areas which seem possibly to be affected by the spread of these diseases, discussion is prevalent as to the wisdom of relying upon the American elm as a street tree to so great an extent as is done in many communities. While first choice is still the American elm, some planting of other species is considered desirable, and the question is what species. The article by R. Morgan Smith in the May 1 issue offered suggestions gleaned from nurserymen's discussions.

The topic has been discussed also by arborists, city foresters, town planners, municipal officials and homeowners in general.

It was the subject of the March issue of the bulletin of popular information of the Morton Arboretum, Lisle, Ill. E. L. Kammerer, arboriculturist at the arboretum, suggested trees for street and parkway planting, admitting their limitations and faults. Some will be of no value in crowded city conditions where smoke, dust and soot are a menace to their existence. They will succeed, probably, in suburban areas where space is less limited and light and air are abundant.

Gleditsia triacanthos inermis, the thornless honey locust, topped the list of Mr. Kammerer's recommendations. "This fine tree," he said, "while subject to breakage in high wind and sometimes criticized for the unsightliness of its fallen seed pods, has many of those same qualities we admire in the American elm. Flat-topped and with flaring branches supporting a canopy of fine-textured foliage, it admits sufficient light to permit the maintenance of lawn and other plantings in its shade. Under ideal conditions its rate of growth will average about two feet a year, and it is tolerant of various soils and exposures.

"The oaks rate highly, too, even though mere mention of them is sure to bring up the question of growth. This is not so slow as generally believed; experiments in feeding conducted at the Missouri Botanical

Garden have established the fact that under systematic fertilizing the oaks will keep apace with elms and sycamores. There is no reason why the northern red oak, *Quercus borealis maxima*, one of our finest natives, should not adorn our streets. Tall and straight, with massive, acute-angled branches, it has excellent clean foliage and beautiful fall color. True, it does not transplant so easily as some trees and is susceptible to borer damage, but if the moving is delayed until late April or early May and the trunks are carefully wrapped after planting, the sunscald which paves the way for the entrance of borers may be largely avoided.

"The pin oak's downward sweeping branches and formal pyramidal outline are better known, and for a good-looking, fast-growing, easily transplanted parkway tree it leaves little to be desired. Its susceptibility to chlorosis, a yellowing of the foliage resulting from an iron deficiency or rather nonavailability, is its only serious fault, but this condition can be controlled. Its deeply cut, glossy foliage exhibits brilliant autumn col-

oring and the leaves usually cling well into the winter.

"An equally colorful fall display is furnished by the scarlet oak, *Quercus coccinea*, an adaptable tree with a rounded dome and sweeping lower branches. It is especially useful on light soils. There is another oak, one with elongated, unlobed leaves rather suggestive of magnolia, which would seem to qualify as a worthy candidate for street planting. This is *Quercus imbricaria*, the shingle or northern laurel oak, a rather exotic-appearing species of pyramidal or long oval outline. Where a round-headed tree is preferred, the English oak, *Quercus robur*, may be considered. While slower than the others, its eventual density and compactness compensate for the moderate rate of growth. A columnar variety of this species, *Quercus robur fastigiata*, is also in cultivation and has proved to be one of the best upright trees in our collection. For narrow streets it cannot be overlooked.

"Always favorites as lawn trees, it

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| | | | |
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| 10,000 | Niagara, 1-1 | .11 | .10 |

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| 1 1/2-in. and up..... | \$10.00 | \$9.50 | \$90.00 |
| 1 to 1 1/2-in..... | 6.00 | 5.50 | 50.00 |
| 3/4 to 1-in..... | 5.00 | 4.50 | 40.00 |
| 1/2 to 3/4-in..... | 4.00 | 3.50 | 30.00 |

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| | 25 to 100 | 100 to 250 | 250 to 1000 |
|-------------------|-----------|------------|-------------|
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| Cuttings | \$0.02 | \$1.75 | \$15.00 |
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would seem logical to find among the maples several forms of potential value as street trees, notwithstanding the seriousness of verticillium wilt and other diseases and insects to which they are subject. The Norway maple, *Acer platanoides*, tolerates smoke and gas better than any of the others and for this reason may be planted in the most congested areas. It is effective over a long period, having ornamental yellow flowers in the spring, good rich green summer foliage and golden yellow fall color, which not uncommonly lasts until early November. Its shortcomings are a tendency to develop a low head and a poorly shaped trunk, the density of its shade, its shallow rooting habit and its slow growth.

"There does not exist a more beautiful native shade tree than the familiar sugar or hard maple, *Acer saccharum*, and yet how seldom do we see new plantings of it today? Definitely a suburbanite, for it must have pure air to survive, it belongs on many a suburban street where now Carolina poplar or some other inferior subject holds sway. It needs space in which to develop its majestic oval head and should certainly not be used where a perfect lawn must be maintained beneath it. Sugar maples in the arboretum test plots have shown an average increase in height of better than two feet a year, which by any way of figuring can scarcely be called slow.

"In areas where moisture is ample and well distributed the silvery trunked red maple, *Acer rubrum*, belongs on the street tree list. Quite like the brittle-wooded silver maple in shape and habit of branching, its bright scarlet flowers and flaming

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autumn foliage color set it apart. There are columnar or pyramidal varieties of all of the above maples available, but we have found them of much slower growth than the types themselves.

"From the standpoint of contour and branching habit, the lindens should qualify as street tree subjects. The preference of most of them for a deep, moist soil, however, and the fact that they are favorite hosts to numerous insects seriously limit their potential value. The shapely silver linden, *Tilia tomentosa*, with its decorative foliage, the formal-appearing hybrid Moltke linden, *Tilia moltkei* (*americana* x *petiolaris*), and the small-leaved European linden, *Tilia cordata*, are three of the most promising.

"The native sycamore, *Platanus occidentalis*, has in many localities proved a satisfactory street tree, and though remarkably amenable to trying city conditions, the blighting of its leaves in summer constitutes a serious drawback. The coarseness of its foliage is sometimes frowned upon, too, a fault which we feel is more than compensated for by its interesting winter aspect. For it is then that its mottled brown and olive gray bark and gleaming white upper limbs show to fullest advantage. The London plane, *Platanus acerifolia*, does even better in the city, but lacks hardiness and is host to a destructive canker disease.

"If it were not for witches' broom, a disfiguring abnormality prevalent on hackberry, *Celtis occidentalis*, this near relative of the elm might well be the answer to the replacement problem. Well developed specimens show the same branching habit, fine twiggy and dense foliage mass of the American elm, in addition to that distinguishing earmark, extremely rough warty bark.

"The ginkgo or maidenhair tree, *Ginkgo biloba*, has established a creditable reputation as a street tree. Taking into consideration its various assets, for it is tolerant of soils and unfavorable growing conditions, easily transplanted and remarkably free from pests, it would seem to more than meet all requirements. Our experience has revealed two major objections, however, its slow growth rate and ungainly youthful appearance. Time will, of course, remedy both.

"Consideration might be given to a number of promising lesser known subjects. The cork trees, for example, *Phellodendron amurense*, *chinese* and *sachalinense*, are desirable round-headed ornamentals which are seldom found outside of

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botanical collections. And yet they tolerate city conditions surprisingly well, thrive in dry soil and escape the ravages of most pests. In all fairness we might add that they are not fast growers and tend to be low branched.

"If it transplanted more easily and its rate of growth could be artificially accelerated, the Kentucky coffee tree, *Gymnocladus dioica*, would surely rate a place on the list. Mature trees have a flaring branch system not unlike that of the American elm, though there is a noticeable absence of any fine branches, and the compound leaves are tropical appearing rather than elm-like.

"On wide parkways where clearance beneath branches is of minor importance, the small rounded Amur maple, *Acer ginnala*, might be tried. Not only is its foliage a pleasing green, but it also bears conspicuous red fruit in summer and produces a flaming autumn leaf display.

"Several of the taller flowering crab apples are also appropriate in suburban localities. Their blossoming affords a charming picture in May, and in fall bright fruits carry on the show. Limiting our choice to a few varieties, we would especially recommend the dependable early-flowering Manchurian crab, *Malus baccata mandshurica*; the distinctive cutleaf crab, *Malus toringoides*; the free-flowering Japanese zumi crab, *Malus zumi Calocarpa*, and that spectacular pink beauty, *Malus adstringens*. Or if it is an upright grower we want, the broad columnar Hartwig crab, *Malus hartwigi*, is available.

"Hawthorns could be employed in much the same way as the crab-apples, though the resultant effect would lack the latter's uniformity. The glossy-leaved cockspur thorn, *Crataegus crusgalli*, flowers and fruits freely under city conditions and would be fine for less formal developments. For a more stylized treatment the Washington thorn, *Crataegus phaenopyrum* (syn. *cordata*), is excellent. Uniformly columnar when young, it will in time broaden into a compact globe-shaped specimen. The English hawthorn, *Crataegus oxyacantha*, also provides a similar outline at maturity.

"While on the subject of flowering trees we cannot overlook the cherry, which holds the distinction of being the earliest tree to leaf in the arboretum. This is the Amur cherry, *Prunus maackii*, a smooth-barked Manchurian species of good form and excellent foliage. The floral display it puts forth in May is also spectacular, sufficiently so in fact to have resulted in its being called May tree in some localities.

"The European hornbeams are an-

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| 2000 4 to 5 feet, 6 br. and up | 20.00 | 150.00 |
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| 15,000 3 to 6-inch seedlings | 4.00 | 30.00 |
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| 10,000 12 to 18 inches, lining-out | 5.00 | 40.00 |
| 12,000 18 to 24 inches, lining-out | 6.00 | 50.00 |
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5 to 7 ins.
Per 100, **\$20.00**

This stock now in greenhouse benches; ready for shipment from May 1 on.

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Quality Since 1890.

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Our General Line of
SMALL FRUIT PLANTS

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Bridgman, Michigan

other worthy group of small trees which most certainly merit attention. Holding their foliage throughout most of the winter and keyed by a remarkable compactness and density of form, they may be relied upon to stay strictly within bounds. The type species, *Carpinus betulus*, develops a round head, the variety *fastigiata*, a narrow pyramidal one, and *columaris* a slender column.

"Being a regional list, many genera which might warrant recognition in other areas may appear to have been overlooked in this appraisal. Such is not the case, as a number of trees have been purposely omitted for definite reasons. The ashes, for example, because of their brittle wood and scale infestations, the birches and locusts because they are short-lived and subject to borer damage, the catalpas and horse chestnuts by reason of their messiness and the latter's tendency to blight and borers, the poplars because of their brittleness and the havoc their troublesome roots play with sewers and drains, the shagbark hickory for its exasperatingly slow growth, and the sweet gum and tulip tree because of their unreliable hardiness this far north."

STATE QUARANTINES ON ELM DISEASE REVOKED.

Following the revocation of the federal quarantine for Dutch elm disease, reported in the May 1 issue of the *American Nurseryman*, several states have discontinued quarantines on the disease, recognizing the principle expressed in the federal revocation notice that continuation of the quarantine does not provide practical means of preventing the spread of the disease.

The Connecticut state quarantine was revoked effective May 1, at the same time as the federal quarantine, according to Dr. R. B. Friend, state entomologist and chief entomologist at the Connecticut agricultural experiment station, New Haven. Since Dutch elm disease is present in practically all sections of Connecticut, Dr. Friend has stated that no useful purpose would be served by continuing the state control of intrastate movement of elm nursery stock or elm wood retaining its bark. Regular nursery inspection laws cover the disease, and no diseased trees will be shipped out of the state. Inspection, research and scouting work on the Dutch elm disease will be continued by Connecticut state officials, in cooperation with federal agencies.

Miles Horst, Pennsylvania secretary of agriculture, has announced that the Pennsylvania state quaran-

1,500,000

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Combination Fruit Trees.

Flowering Shrubs

Shade Trees

Roses

Be wise, shop around; get our prices before you buy. Watch the mail for our early summer wholesale list.

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ushers in a new era in **Gooseberry** growing. Easy to pick, hardy and most productive, the Pixwell puts profit in gooseberries.

Write for price.

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Fertile, Minn.

FRUIT TREES

**HARRISON BROTHERS
NURSERIES**

G. Hale Harrison, General Manager
BERLIN, MARYLAND

CULTIVATED BLUEBERRY PLANTS

1, 2 and 3-year Cultivated
Blueberry plants.

From \$1000.00 to \$2000.00 per acre taken in from this crop this past summer in Eastern states. New Jersey grows more blueberries than the other states combined. The cultivated blueberry originated in this state.

1-yr., well rooted plants, none better anywhere. \$3.00 per doz.; \$18.00 per 100. 2-yr., 8 to 12 ins., \$5.00 per doz.; \$35.00 per 100. 3-yr., 12 to 15 ins., \$8.00 per doz.; \$60.00 per 100. 3-yr., \$12.00 per doz.; \$90.00 per 100. List sent.

Also **Sunset Red Raspberry** plants, heavily rooted, carry special raspberry certificate, \$5.00 per 100; \$40.00 per 1000.

WARREN SHINN, Woodbury, N. J.

SMALL FRUIT PLANTS

Evergreens — Shrubs
Asparagus — Rhubarb

Send for Complete Trade List.

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NEW CARLISLE, O.

Nurseries Too, PROFIT by MODERN HANDLING METHODS



Loading shrubs by Rapid-Wheel Conveyor at the Lindley Nurseries, Inc., Greensboro, N. C. This installation has effected a considerable savings in both labor and costs.

Faster handling of plants and shrubs on smooth rolling Rapid-Wheel Conveyors is "paying off" in decreased costs for many progressive nurserymen. One of these, Mr. J. Van Lindley, President of Lindley Nurseries, Inc., says: "With your equipment we are able to load our products on our trucks more rapidly than by methods formerly used—and at a considerable savings in cost. Our plants arrive at their destination in better condition because they are moved from one point to another in our warehouse on your conveyor without having to be handled several times by hand."



Weber Bros., Royal Oak, Michigan, are thoroughly pleased with the way Rapid-Wheel moves their flats of seedlings in and out of the greenhouse and onto trucks for delivery.

RAPID-WHEEL GRAVITY CONVEYORS

Plants, potted in one end of a greenhouse, are placed on trays which travel over Rapid-Wheel Conveyor to concrete flats in another section. This has saved much hard work and extra handling of former trucking methods.

... Can be set up anywhere in your nursery or greenhouse to convey plants and shrubs easily, efficiently and economically. There are eight standard models, two widths, each model varying in the number of wheels per foot. Standard 5' and 10' sections. Adjustable supports available.

Check these handling costs. . . . Write today for free information on how to reduce handling costs.

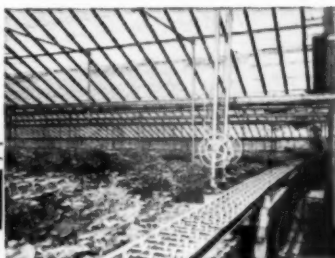


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The Rapids-Standard Co., Inc.

Sales Div. 302 Peoples Nat'l Bank Bldg., Grand Rapids 2, Michigan

Rapid-Wheel Conveyor installation in a greenhouse takes up a minimum of space . . . provides easy movement of trays of plants to any part of the greenhouse.



tine on Dutch elm disease was also revoked May 1. The disease is found in the eastern part of Pennsylvania, but has not been found on nursery stock in the state.

MOVING from Newport, R. I., to Middletown, R. I., Joseph E. Medeiros has changed the name of his firm from Joe's Nursery to Plane-View Nursery.

ALTHOUGH the establishment formerly known as Southland Gardens, Inc., at Mobile, Ala., is under the same management, the name was changed recently to Southland Nurseries, Inc.

A NEW lawn and garden supply store and retail nursery have been opened by Ernest E. Summers, at Muncie, Ind. He was in the nursery and landscape business before the war, during which he served for four years with the army overseas.

MAX PFAENDER has opened his own office as landscape architect at Oklahoma City, Okla. Reared in his father's nursery in Minnesota, he became associated with the Classen Co., Oklahoma's oldest real-estate institution, in 1914, as director of the department of land planting and development.

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SEEDS — PLANTS — BULBS
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Evergreens, Fruit Trees,
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Send your surplus list to
THE PONTIAC NURSERY CO., Romeo, Mich.

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Apricot and Myrobalan Seeds.

1947 Crop.

By ton or car.

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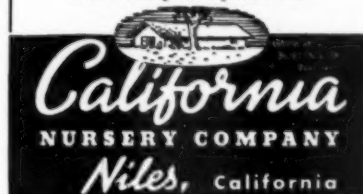
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Nation's Leading Source

Write today for quotations.



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Collectors of Tree, Shrub and
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E. C. MORAN Stanford, Mont.

California Garden Show

The fifteenth annual California spring garden show, April 29 to May 4, in the Exposition Auditorium, Oakland, was notable for the active participation in it by nurserymen of the state. "Fantasia" was the theme taken by Howard Gilkey, the designer of the show, who attempted a modified modern setting for the background, emphasizing color and originality.

No first prize was given among the capital awards. The American Rhododendron Society received the superior (second) award; Gomes Nursery, Oakland, the special (third) award, and McDonnell Nursery, Oakland, the award of merit (fourth).

Gomes Nursery, in a display built around a fountain, combined pink, white, yellow and pale lavender rhododendrons in a spectacular effect.

Toichi Domoto, Hayward, received a blue ribbon in general display competition for a nursery stock display featuring deciduous magnolias. Carried out with effective simplicity, the display also included rhododendrons, with pink and white peonies.

Montclair Nursery, Oakland, received a first prize in general displays for a display of ornamental nursery stock, which included tall spikes of delphinium, azaleas, standard roses, cinerarias and coleuses. The East Bay Nursery, Berkeley, received a blue ribbon in general displays for a display of general nursery stock, with emphasis upon specimen trees, rhododendrons and azaleas. With a patio for the background, gloxinias and calceolarias in attractive arrangements added color.

California Nursery Co., Niles, received first prize for a spring garden designed by a nursery with a landscape department. In the garden were featured spring bulbs, including tulips, and other spring flowers. A garden scene was realistically carried out, with flagstones leading up to a patio. Tall trees and rhododendrons were used in the background.

A decorative display of azaleas, designed in an adapted Chinese manner, brought a first prize to Martin & Overlach, San Francisco. An antique figure of Kuan Yin, under a weeping birch, was the focal point of the display, with azaleas banked around it and a background of natural stone.

Displays of roses, whether shown alone or with other flowers, always attract attention, and this year was no exception. Jackson & Perkins Co., San Jose, received a first prize for

an exhibit of twenty-five roses of one or more polyantha varieties. These were standard roses arranged in the entrance to the outdoor gardens.

East Bay Nursery, Berkeley, received a first prize for an entry of twelve roses of one variety and second for an entry of forty standard roses of assorted varieties. Crombie Nursery, Oakland, received first prize for an entry of a rose garden appropriate to the theme, first for an entry of twelve of one variety of polyantha roses, a first for twelve of two or more varieties and a first for forty standard roses, assorted. Flowerland Nursery, Oakland, received a blue ribbon for an entry of one variety of twenty standard roses.

Clyde Stocking, San Jose, received a blue ribbon for his display of Fantasia, Lady Trent, Peace and Nocturne.

Some years ago the entries in the show became so numerous that it was necessary to take additional space outside and adjoining the building. This year the entries in this section of the show were outstanding. McDonnell Nursery, Oakland, received a special award of merit for a garden designed by Ned S. Rucker. It featured a garden developed as an outdoor-indoor contemporary sleeping

unit, with actual construction on a commodious scale. Carrying out the modern idea of garden and house as an integrated unit, the breakfast room, complete in detail, was separated from the outdoors by full-length glass panels. Adjoining was an outdoor sleeping unit, open on one side, which was connected to the garden by a circular concrete area extending to the lawn.

Carl Purdy, Ukiah, was awarded a first prize for a wild flower garden in simulation of a natural hillside. The E. James Nursery, Oakland, had a rustic entry with rhododendrons, azaleas and coleuses edged with white alyssum. Christensen Nursery Co., Belmont, received second prize for a garden with outdoor dining room, barbecue pit and accessories. Flowers here were bearded blue and yellow irises, banked with rhododendrons.

E. James Nursery received first prize for an outdoor exhibit of ornamental nursery plants and greenhouse pot plants.

VUYK VAN NES

BOSKOOP

HOLLAND

Originators of Azalea Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

Exports to the U. S. A. receive special preparation, cleaning and packing for best results. All stock carefully graded. New York office handles all import details at no extra cost.

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Uniform quality, two tape edges for tying. Made by the largest mill in Holland, whose exclusive distributors we have been since 1921. Stock on hand and being made. Order now for prompt or later delivery.

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NORTHERN - GROWN STOCK

For the very best transplants, get our northern-grown seedlings. Any experienced nurseryman knows that 2-yr. seedlings are the best for well shaped transplants for lining out in 2 years. Get the best.

Per 1000

Douglas Fir, 2-yr. seedlings, 2 to 3 ins. \$30.00

Douglas Fir, 2-yr. seedlings, 1 to 3 ins. 20.00

Black Hills Spruce, 2-yr. seedlings, 1 to 3 ins. 15.00

Colorado Blue Spruce, 2-yr. seedlings, 2 to 3 ins., these run the highest percentage of Blues we ever grew 25.00

Ostrich Plume Ferns, hardy, 2 1/2 to 3 ft., multiply by runners. We have repeat orders on these from 30 states. They are a very good salesyard item. Large clumps, \$6.00 per 100.

Satisfaction guaranteed. Good packing. Prompt service.

Cash or satisfactory references. No C.O.D.

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Nursery Stock at
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BULK & CO., Nurserymen,
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Experienced Exporters of Nursery
Stock since 1914.

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formula for a rose-y future



CLOVERSET CLOTRACIDE

REG. U. S. PAT. OFF.

ROSE SPRAY POWDER



... the rose spray developed BY a nurseryman for use in protecting his own roses. So eminently successful that it now is sold by large and progressive dealers throughout the country, CLOTRACIDE contains all the necessary chemicals for the control of Black Spot, Mildew and other fungus diseases, as well as leaf-eating worms and insects, such as rose slugs, which skeletonize foliage. Easy to use—just add water. Complete instructions on each package.

AVAILABLE IN 3 SIZES

50c size costs you 30c—\$3.60 per case, to sell for *\$6.00. 50c size makes 5 gallons spray.

85c size costs you 51c—\$6.12 per case, to sell for *\$10.40. 85c size makes 10 gallons spray.

\$1.50 size costs you 90c—\$10.80 per case, to sell for *\$18.00. \$1.50 size makes 20 gallons spray.

*Suggested selling prices.

Packed 1 dozen packages to a case, F. O. B. Kansas City.

Send for Sample!

Send 25c (to cover cost of packing and mailing) for 50c size of CLOTRACIDE.

WHOLESALE! inquiries invited

A FINE PROFIT FOR YOU!

Sell Clotracide to every one of your rose customers—it's a highly profitable tie-in item. Clotracide's low price per gallon and attractive new package make a fast turnover for you.

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ERNEST HAYSLE & SON

105th Street and Broadway, Kansas City 5, Mo.

FAIR EXHIBIT COMMITTEE.

Members of the committee appointed by Charles Armstrong, president of the California Association of Nurserymen, to plan for the first official exhibit of the association at the California state fair, Sacramento, August 28 to September 7, are as follows: Tom Edwards, Montebello; John Armstrong, Ontario; Paul Moulder, Glendale; Bert T. Kallman, Santa Barbara; Paul Kleinsorge, North San Diego; Jack McDonnell, Oakland; Sid Whitehorn, Fresno; Walter Tecklenburg, Lodi; George Roeding, Niles; James Wilson, Millbrae; Jack Evans, Richard Westcott and Paul J. Howard, Los Angeles; W. B. Clarke, Ray Hartman and James F. Clarke, San Jose, and Elmer Merz, Eugene Armstrong, Don Wiese and E. B. Bond, Sacramento.

SPONSOR ROSE SHOW.

The Centinela Valley Nurserymen's Association, which recently became associated with the California Association of Nurserymen, sponsored a 3-day rose show at Grevillea park, Inglewood, Cal., April 25 to 27. Plans for the show were announced by Joseph D. Beeler, association president.

THE HOMESTEAD NURSERIES

H. G. BENCKHUYSEN — Proprietor — BOSKOOP, HOLLAND

FOR BETTER VARIETIES OF
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Rosebushes and Herbaceous plants

Buy from a firm specializing in exporting plants.

PEPINIERES VANVERT FRERES & FILS
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Ask for quotations on items you need, indicating quantities.

Holland-Grown Nursery Stock

Shrubs and Trees,
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Rhododendrons and Azaleas
Hardy Perennials
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NOVELTIES IN ALL LINES

Ask for wholesale catalog.

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Growers and exporters since 1903.

GULDEMOND & CO.

(Boskoop, Holland)

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GULDEMOND'S
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Complete List of
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We offer for Fall 1947 Nursery Stock

Ask for our wholesale stock list and prices.

Also many varieties of young stock for growing on.

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Since 1921 grower and exporter of reliable nursery stock.

HILTABRAND ADDRESSES REDWOOD EMPIRE GROUP.

The forty-fourth meeting of the Redwood Empire Nurserymen's Association was held at Maison Marin, near Novato, Cal., April 11. The meeting date was changed to coincide with Jack Lincke's visit to the northern part of the state.

Mr. Lincke, executive secretary of the California Association of Nurserymen, was called upon first. He spoke about the program recently promulgated at Fresno and brought up the question of keeping the public aware of the nursery industry. He suggested the use of signs to distinguish nurseries which are members of the California Association of Nurserymen. Attractive enameled steel signs will soon be sent to member nurseries. It is felt that they will build up customer confidence and will stand for good, healthy merchandise at reasonable and practical prices.

Mr. Lincke passed around the two sizes of decals, or transfers, to be sold by the various chapter secretaries, for the inspection of those present. The large size is for windows in nurseries and the smaller size for trucks and cars.

The state secretary wants to find out how the assessors in the various districts assess nursery stock. This is essential for an analysis of taxation. President Robert von Grafen appointed the following members to work on this problem: Donald Perry and Leo Ihle, for Marin county; Mr. King and W. H. Cudaback, for the Napa section, and Henry Martin and Clyde von Grafen, for the Sonoma region.

Leo Ihle, of Birchlane Farm, San Rafael, introduced Wray Hiltabrand, assistant supervisor of nursery service. Mr. Hiltabrand said there was a necessity for an increase in nursery fees, because there are more nurseries in existence now than during the war years, calling for increased personnel, and because of the increase in costs and traveling expenses. There have been 3,500 licenses issued so far this year. The directors of the nursery service have adopted a license fee of \$15 for the main office and \$15 for each branch nursery.

Mr. Hiltabrand enumerated the benefits of the nursery service, as follows: A census of fruit trees which acts as a guide for planting; a uniform inspection between counties, thus making for fewer rejections because of pests; the location and eradication of new pests, and a better relationship between the agricultural commissioner and the nursery.

RICH & SONS NURSERY

Offers

a general line of Nursery Stock. Write for catalog.
Retail catalogs in color available to the trade at cost.
40-page general catalog, 30c
32-page Bulb and Rose Catalog, 25c

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ORDER NOW

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Apple Seedlings

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We specialize in these items.

Our quality is tops.

WASHINGTON NURSERIES

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DEL RANCHO FORTUNA

FRUIT TREES
and
GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

NOTICE

Limited production makes it impossible to book orders for new customers.

HOWARD ROSE COMPANY

Hemet, California

President von Grafen asked Jack Lincke to give some information on the coming state convention, but before doing so, Mr. Lincke suggested that it was possible that in the near future applicants for nursery licenses would be required to take examinations. He noted that this would not apply to those already licensed; so these nurserymen could stop fidget-

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Lining-Out
ORNAMENTAL STOCK

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Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings, Norway Maple Seedlings and English Privet.

We also have Norway Maples, 3-yr. branched, and Norway Whips and E. W. Birch, 3 yrs. old, well branched.

We aim to please with quality stock.

John Holmason & Sons, Props.

ing. He also stated that the association hopes to work out a uniform set of discounts for gardeners and landscape men. According to Mr. Lincke, the state convention will be held at San Diego, home of famous Balboa park, September 29 to October 1. There will be a good deal of entertainment at this year's convention, and some special events for the

ladies. For the first time in many years, the members will all have accommodations at the same hotel.

Ernest E. Munson, Sec'y.

CALIFORNIA NOTES.

Members of the California Association of Nurserymen are beginning to display membership signs furnished by the association. The signs are part of a campaign to publicize the association.

Shell bark cannot be controlled by any means now known to growers or scientists, according to Dr. E. C. Calaver, pathologist at the citrus experiment station, Riverside.

New varieties of peaches are being developed by William F. Wright, retired United States Department of Agriculture geneticist, on his 1,000-acre ranch near Pala in San Diego county. He is attempting to solve the delayed defoliation problem caused by lack of freezing weather in southern California. While actively employed, Mr. Wright developed many of the popular peach varieties now being grown in the state, such as Fortuna, Shasta, Cortex, Amador, Andora and Nesta.

There were nearly 1,100 nurseries operating in Los Angeles county in 1946, 100 more than there were the year before.

Lee E. Kremer, Pomona, will raise orchids and camellias on a 35-acre place he has purchased in Mendocino county.

There are now about 10,000 acres of noncultivated citrus plantings in California. Weeds are controlled by spraying with petroleum weed killers.

The Garden City Pottery Co., San Jose, is building a \$40,000 building as part of its expansion program.

Construction was recently started on a new research building for the California Fig Institute, Fresno. Research work will be directed by Dr. Robert W. Warner, in cooperation with the United States bureau of entomology and the college of agriculture of the University of California.

A large acreage of the Sacramento valley tomato crop this year was planted with pelleted seeds. These seeds are incased in a material which contains a fertilizer, a fungicide and an insecticide, and it is claimed that about 100 per cent stand is obtained and that the plants are cleaner and grow faster than those from non-pelleted seeds.

Citrus thrips are found in all of the citrus-growing areas in the state, but are a serious problem only in the interior valleys. They cause injury to the fruit and the new growth. Grow-

PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE Avery H. Steinmetz PORTLAND, OREGON

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES

CAMELLIA LINERS
From 2½-in. pots. Ready June.
Our list contains very fine varieties. Highest quality guaranteed.

Rubber Budding Strips
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GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings
Flowering Ornamental Trees
Shade Trees

Grown right and packed right.
Combination carloads to Eastern
distributing points will save you
on freight.



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We still have quite a number of
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MILTON - Since 1878 - OREGON

Flowering, Ornamental and Shade Trees

Oregon and Washington-grown
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Angers Quince
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Our Combination Carlots to
Eastern Distributing Points assure
minimum transportation cost.

Use your letterhead for correspondence.

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*Wholesale Growers
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AS ALWAYS— OREGON'S BEST SOURCE of GOOD ROSES

Limited crops reserved for
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*Wholesale Rose Growers
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GARDEN ACCESSORIES in CALIFORNIA REDWOOD

8-ft. size
Packaged8-ft. size
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FAN-SHAPED LOC-TITE TRELLISES

A graceful trellis for climbing roses or other vines. Sturdily built for firm support, with artistic full fan design that adds interest to house or garden. Shipped in package form, easily assembled, as illustrated. Sizes from 18 ins. to 8 ft.

PANEL TYPE LOC-TITE TRELLISES

Sturdy trellises in collapsible rectangular design. 6 and 8-ft. sizes.



Crescent style

GARDEN ARBORS

Artistic arbors to beautify your garden and lend interest to a variety of plantings. Three attractive styles in varying sizes.

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These items are all manufactured from long-lasting California Redwood. Packaged in space-saving, breakage-resistant, compact form. Quick and simple to assemble, with interlocking construction for durability. Made by a dependable manufacturer of specialty wood products.

AVAILABLE FOR IMMEDIATE SHIPMENT

Write for prices and complete description.



**TIMBERLAND
PRODUCTS CO.**

31 Stevenson Street
San Francisco 5, Calif.

ers and nurserymen should not neglect the newer methods of thrips control which seem to be cheaper and more effective.

Scale tip, a disease which disfigures the scales of lily bulbs, distracting from their appearance and keeping qualities, does not, according to Dr. Frank P. McWhorter, of Oregon State College, Corvallis, lead to unsatisfactory growth when the plants are forced in greenhouses. It is caused by *Colletotrichum lilii*. West coast lily growers are trying to control the disease, as it does cause some loss in the field, but as yet they have found no successful treatment.

Wray Hiltabrand explained the functions of the nursery service to the members of the Superior Nurserymen's Association at its April 14 meeting, which was held at O'Kanes, Sacramento.

San Joaquin valley nurserymen have voted against an increase in the state license fee for nurserymen.

The California agricultural commissioners will hold their annual convention at Riverside, May 20 to 22.

Stephen Vistica, nurseryman and florist at San Mateo, was the speaker at a recent meeting of the San Mateo Garden and Flower Club. His subject was, "Timely Planting at This Time of the Year."

Toichi Domoto, Hayward camellia and peony grower, spoke at a meeting of the San Francisco Businessmen's Garden Club on the new kinds of peonies he has developed in the past ten years.

Bert Bertolero, of McDonnell Nursery, Oakland, recently led a discussion and demonstration on "Seed Sowing at Home" at the Roosevelt Adult Center, Oakland.

Lyon Iris Gardens have moved from Los Angeles to 7041 Woodman avenue, Van Nuys.

Shinault's Feed & Nursery are now located at 1100 East Third street, San Bernardino.

Chemical weed killers that will kill weedy grasses out of broad-leaved crops may soon be available to nurserymen, according to Dr. Virgil H. Freed, of Oregon State College, Corvallis. The active principle in such sprays would be isopropyl phenyl carbonate. The sprays would be a boon to nurseries which are having difficulty in securing pinto tags because of Johnson grass infestations.

W. B. B.

AL ROGAN has been appointed southern California representative of the Nurserymen's Exchange, San Francisco, Cal., according to Carl Pearlstein, owner.

NURSERY LABELS IN 25c PACKS

THE EFFICIENT WAY TO
MERCHANDISE LABELS



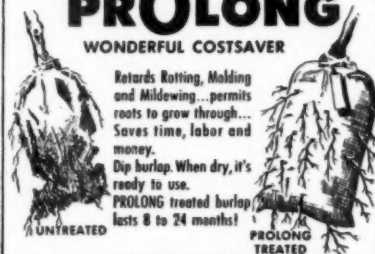
Two Hundred 25c Packs That Retail for \$50.00 Cost You \$25.00, Less 5% If You Mail Check With Order.

CARSCALLEN

Nursery Label Company
65 WEST UNION ST., PASADENA, CALIF.

PROLONG

WONDERFUL COSTSAVER



R. L. CHACON CHEMICAL CO.
10000 ATLANTIC BOULEVARD, SOUTH GATE, CALIFORNIA

NURSERY PACKING

Wood Feathers (Baled Red Cedar Shavings) are valuable to use when packing bare roots or deciduous stock for shipment because of their large moisture-absorbing capacity. Will keep roots moist in transit or storage. The most economical of packing materials and the easiest to use.

Wood Feathers

MONARCH SHINGLE CO.
P.O. Box 37, North Portland, Ore.

BALED SHINGLE TOW (CEDAR SHAVINGS)

WM. A. JOHNSTON
408 Postal Bldg., Portland 4, Ore.

ALASKAN NURSERY.

A 5-year development program has been planned by Far North Nurseries, Inc., Anchorage, Alaska, for the growing of hardy stock suited to the various climatic areas of Alaska. The business is owned by Mr. and Mrs. Dan L. Lappala and Mr. and Mrs. Carl Martin, of Anchorage, and active management and operation of the business has been assumed by Mr. Lappala, who previously was in business as the Alaskan Nurseryman.

While stock for this year's sales is being shipped from the Northwest Nursery Co., Valley City, N. D., a nursery is being developed two miles south of Anchorage to serve as a growing field, sales ground and distribution point. The major portion of the stock for the nursery is being shipped by air from Minneapolis, Minn., and Portland, Ore. Three thousand hybrid tea roses were recently flown from Portland, Ore., and placed in storage for spring sales.

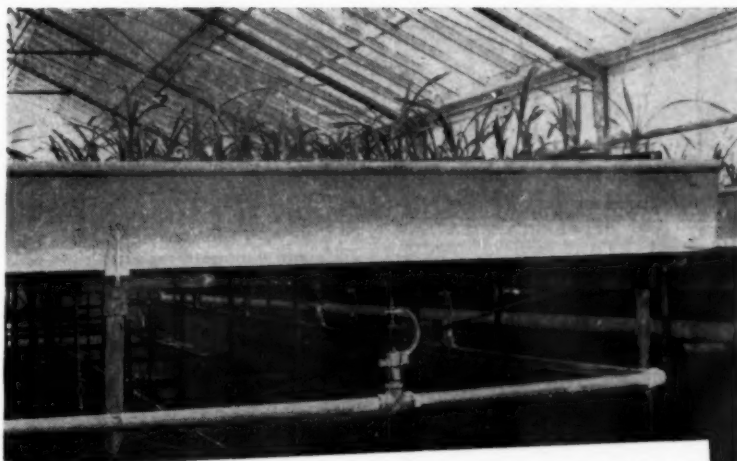
The nursery plans to inaugurate a north-testing service, whereby it will conduct hardiness trials of plants sent from the United States. The trials will run for a 3-year period, and behavior reports will be made on each item in the spring and fall. Another interesting feature is the long-term program of collecting native Alaskan plant materials for shipment to botanical gardens, arboretums and park boards. Propagating stocks of unusual and desirable native plants will be introduced to the trade.

A DAUGHTER; Lynn Ann, was born, March 19, to Willis and Joan Stribling, of Stribling's Nurseries, Merced, Cal.

J. LYNN MOSSHOLDER, who operates the Mossholder Nursery, El Monte, Cal., with his brother, Denver L. Mossholder, has devised a new nursery plant-canning machine, now being manufactured under the name of the Mossholder Plant Canner.

AFTER completion of his schooling this June, when both he and his wife will be graduated from Oregon State College, Roy Carter will continue his association with Carter's San Fernando Nursery, San Fernando, Cal., operated by his father, Henry W. Carter.

CELEBRATING its sixtieth anniversary this year, Winsel-Gibbs Seed & Nursery Co., Los Angeles, Cal., was established in 1887. Robert A. Gibbs, cofounder and present owner, is assisted in the business by his son, James A. Gibbs, recently discharged from service with the navy.



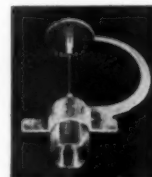
Attention ORCHID GROWERS ... AND NURSERYMEN!

MORE PROFIT FROM YOUR GREENHOUSE!

- Under-bench installation of the Patented CHRISTENSEN MIST SPRAY, as shown above, controls the relative humidity within 2 per cent—day or night.
- Over-bench installation for propagation of seedlings and cuttings, in greenhouses, lath houses and cold frames; irrigation and cooling of plants both indoors and outdoors.
- The fine mist produced by the Christensen Mist Spray gently irrigates and humidifies delicate plants and seedlings without washing away soil or destroying delicate foliage. Further, the finely divided moisture dissolves oxygen from the air and that oxygenated mist inhibits plant disease appreciably.
- The Christensen Mist Spray is without an equal in its ability to atomize water with the aid of water pressure alone.
- Inquire today. Give us the size of your greenhouse—we will give you the details of installation free of charge.
- Price: Enameled, noncorrosive spray heads—\$2.95 each. Postage extra.
- Order direct (or through dealer).

Christensen MIST SPRAY

PACIFIC WESTERN ENGINEERING COMPANY
3165 EAST SLAUSON AVENUE, LOS ANGELES 11



HYPONEX PLANT FOOD

CLEAN—ODORLESS—SOLUBLE—POWDER

USE HYPONEX to grow bigger and better flowers and vegetables in poorest soil—even in sand, cinders or water. Excellent fertilizer for trees, shrubs, lawns and house plants.

USE HYPONEX for top-dressing seedlings, cuttings and transplants. Produce strong root systems and stems, also more and larger flowers and fruit.

SELL HYPONEX to your customers. Nationally advertised.

1-oz. packet 10c—packed 71 to case—wt. 7 lbs.
3-oz. can 25c—packed 36 to case—wt. 12 lbs.
7-oz. can 50c—packed 24 to case—wt. 14 lbs.
1-lb. can \$1.00—packed 12 to case—wt. 16 lbs.
10-lb. drum \$8—25 lbs. \$15—50 lbs. \$25—100 lbs. \$40
Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

BUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

HYDROPONIC CHEMICAL COMPANY, Inc.
315 West 39th Street, New York 18, N. Y.

GOODRICH RUBBER BUDDING STRIPS

Prewar quality.

Made from natural rubber.

Eleven sizes available.

Immediate or later delivery.

Samples and prices on request.

WILLIS NURSERY CO.
Ottawa, Kansas

CLASSIFIED ADS

25 cents per line.

Minimum order, \$2.00.

BERRY PLANTS

CULTIVATED BLUEBERRY PLANTS
Returns last summer were from \$1000.00 to \$2000.00 per acre for the growers of these berries. 1-yr. plants, \$3.00 per doz.; \$18.00 per 100. 2-yr., 12 to 15 ins. high, \$8.00 per doz.; \$60.00 per 100. 3-yr., \$12.00 per doz.; \$90.00 per 100. List sent.

WARREN SHINN, Woodbury, N. J.

RED SUNRISE RASPBERRY PLANTS
Superb stock, heavily rooted. Carry special New Jersey Raspberry certificate. None better. \$5.00 per 100; \$40.00 per 1000.

WARREN SHINN, Woodbury, N. J.

Nurseryman for 40 yrs.

Special WEYMOUTH BLUEBERRY PLANTS
2-yr., \$15.00 per doz.
WARREN SHINN, Woodbury, N. J.

BULBS AND TUBERS

SPECIAL GLADIOLUS SALE

| | Per 1000 |
|------------------------------------|----------|
| 5000 Margaret Fulton, No. 1..... | \$26.00 |
| 7000 Maid of Orleans, No. 3..... | 17.00 |
| 4000 Rosa Van Lima, No. 1..... | 27.00 |
| 5000 Picardy, No. 1..... | 27.50 |
| 10,000 Picardy, No. 3..... | 19.00 |
| 5000 Dr. Bonett, No. 1..... | 27.00 |
| 5000 Snowprincess, No. 3..... | 18.00 |
| 2000 Polar Ice, No. 3..... | 23.00 |
| 10,000 Beacon, No. 3..... | 18.00 |
| 10,000 Maid of Orleans, No. 1..... | 28.00 |
| 5000 Miss Bloomington, No. 1..... | 27.00 |

Cash, or C.O.D.
HOWARD STREET PANSY GARDENS
P. O. Box 963 Kalamazoo 99, Mich.

QUALITY LILY BULBS

| | Per 100 |
|---------------------------------|---------|
| Lilium Rubrum, 16 to 18 cm..... | \$40.00 |
| Lilium Henryi, 22 to 26 cm..... | 30.00 |
| Lilium Regale, 5 to 6 cm..... | 8.50 |
| Lilium Regale, 6 to 7 cm..... | 10.50 |
| Lilium Regale, 7 to 8 cm..... | 13.00 |
| Lilium Regale, 8 to 9 cm..... | 18.00 |

Cash, or C.O.D.
MONARCH PLANT FARMS
Kalamazoo 99, Mich.

CANNA BULBS, \$5.00 per 100; \$40.00 per 1000.

Pennsylvania (orange and red), Red King Humbert (red), Yellow King Humbert (yellow), Hungaria (pink).

BENTON COUNTY NURSERY CO., INC.
Rogers, Arkansas

Yellow Gem Dahlias, \$12.00 per 100.

Mixed Dahlias, \$9.00 per 100.
BENTON COUNTY NURSERY CO., INC.
Rogers, Arkansas

EVERGREENS

JUST ARRIVED FROM HOLLAND HEALTHY, HARDY IMPORTED LINING-OUT STOCK

| | 10 to 50 to | each | each |
|---|-------------|--------|------|
| Acer Pal. Atropurpureum, 1-yr. | | | |
| T. layers, 10 to 15 ins..... | \$1.35 | \$1.25 | |
| Azalea Fontica (Hardy Ghent), named varieties, mixed colors, 2 to 3-yr. grafts, 10 to 12 ins.. | 1.50 | 1.35 | |
| Azalea Mollis Hybrids, named varieties, mixed colors, 2 to 3-yr. grafts, 10 to 12 ins..... | 1.50 | 1.35 | |
| Azalea Mollis J. C. Van Tol (clear red), Hugo Hardyzer (bright red), adiga, 8 to 10 ins..... | .85 | .75 | |
| Pieris Japonica (Andromeda), 12 to 15 ins..... | 1.35 | 1.25 | |
| Rhododendron Hybrids, Album Elegans, Catawbiense Bour-sault, Caractacus, Carvallo, Catawbiense Grandiflorum, Ever-etianum, Godman, Parsons Gloriosum, Parsons Grandiflorum, Lee's Dark Purple, Roseum Elegans, Roseum Superbum, Van der Hoop, Van Weerden Poelman, 2 to 3-yr. grafts, 10 to 18 ins..... | 1.50 | 1.35 | |

For immediate shipment. A good buy of strong, healthy plants. Only the best shipped to us and to you. Not less than 3 of a variety in Rhododendrons. Please send cash with your order.

JOHN VERMEULEN & SON, INC.
Westbury, L. I., N. Y.

EVERGREEN, SHRUBS

Rhododendron Maximum, Mt. Laurel, Hemlock, Azalea, Red Maple and Dogwood; 8 to 18 ins., \$2.00 per 25, \$7.00 per 100; 2 to 4 ft., \$3.00 per 10, \$6.00 per 25, \$20.00 per 100. Clumps, 2 to 3 ft., \$1.00 each.

NORMAN SMITH
R. F. D. No. 3 Butler, Tenn.

LINING-OUT STOCK

1-yr. rooted cuttings from field beds.

| | Per 100 | Per 1000 |
|---|---------|----------|
| 1000 Ret. plumosa aurea | \$12.00 | \$110.00 |
| 100 Ret. filifera aurea | 15.00 | 150.00 |
| 200 Ret. filifera, green | 12.00 | 120.00 |
| 200 Ret. pilifera aurea | 15.00 | 150.00 |
| 1000 Thuja occ. compacta | 12.00 | 110.00 |
| 400 Thuja occ. Hovey | 12.00 | 110.00 |
| 500 Thuja occ. globosa | 12.00 | 110.00 |
| 3000 Taxus cuspidata, spreading | 12.00 | 110.00 |
| 2000 Taxus cuspidata, upright | 15.00 | 140.00 |
| 200 Juniperus pfitzeriana | 17.50 | 175.00 |
| 1000 Callicarpa purpurea | 5.00 | 40.00 |
| 500 Spiraea prunifolia | 5.00 | 45.00 |
| 2000 Deutzia Lemoine | 5.00 | 45.00 |
| 2000 Deutzia gracilis | 5.00 | 45.00 |
| Rooted Cuttings From Greenhouse. | | |
| 4000 Ret. plumosa aurea | 8.00 | 75.00 |
| 1000 Ret. plumosa, green | 10.00 | 90.00 |
| 5000 Taxus cuspidata, spreading | 10.00 | 90.00 |
| 4000 Taxus cuspidata, upright | 12.00 | 110.00 |
| 500 Taxus cuspidata brevifolia | 12.00 | 110.00 |
| 200 Taxus cuspidata intermedia | 12.00 | 110.00 |
| 500 Taxus cuspidata hatfieldi | 12.00 | 110.00 |
| 200 Taxus cuspidata hickii | 12.00 | 110.00 |
| 500 Juniperus sin. pfitzeriana | 15.00 | 150.00 |
| 1000 Thuja occ. globosa | 10.00 | 90.00 |
| 2000 Thuja occ. compacta | 10.00 | 90.00 |
| 400 Thuja occ. Hovey | 10.00 | 90.00 |
| 200 Thuja occ. Peabody | 12.00 | 110.00 |
| 500 Tsuga canadensis, 2-yr. seedlings | 10.00 | 100.00 |

BROUWER'S NURSERIES
624 Montauk Ave. New London, Conn.

CAMELLIAS, 2 1/2-IN. POTS.

Our next stock will be ready for shipment in June. These cannot be too highly recommended as plants that are grown for one purpose only, and that to supply our trade with Camellias that have been grown with exceptional care and attention. We have a good selection to offer, a few of which are listed here. Complete list on request.

| | | | |
|-----------------------|--------|-------------------------|--------|
| Covina | \$0.25 | Grande Fl. Rosea | \$0.50 |
| Clark's Red | .25 | Monarch | .50 |
| Pink Perfection | .25 | Rhapsody | .50 |
| Valvareda | .25 | Rose Queen | .50 |
| Purity | .35 | Bolen's No. 101 | .60 |
| Briar Rose | .40 | Brilliant | .60 |
| Hugh Evans | .40 | Chandleri Elegans | .60 |
| Jordan's Pride | .40 | Dia Kagura | .60 |
| P. Bacciochi | .40 | Blood of China | .75 |
| Bella Romana | .50 | Pope Pius | .75 |

Add 2c per plant packing charge.
L. E. COOKE CO.
417 Vista St. San Gabriel, Cal.

225 COLORADO SPRUCE

| | 10 rate - each | Green | Blue |
|-------------------------------|----------------|--------|------|
| 1 1/2 to 2 ft., xxx, B&B..... | \$1.90 | \$4.25 | |
| 2 to 2 1/2 ft., xxx, B&B..... | 2.75 | 6.50 | |
| 2 1/2 to 3 ft., xxx, B&B..... | 3.50 | 7.00 | |
| 3 to 3 1/2 ft., xxx, B&B..... | 4.25 | 8.75 | |
| 3 1/2 to 4 ft., xxx, B&B..... | 5.00 | 10.00 | |
| 4 to 5 ft., xxx, B&B..... | 6.00 | 11.00 | |

100 NORWAY SPRUCE

| | |
|-------------------------------|--------|
| 2 to 2 1/2 ft., xxx, B&B..... | \$1.50 |
| 2 1/2 to 3 ft., xxx, B&B..... | 2.25 |
| 3 to 3 1/2 ft., xxx, B&B..... | 2.75 |
| 3 1/2 to 4 ft., xxx, B&B..... | 3.50 |
| 4 to 5 ft., xxx, B&B..... | 4.50 |

F.O.B. Nursery, Beetle Zone only. Truck delivery within 125 miles at cost.

BROOKFIELD GARDENS
Route 6 Delaware, N. J.

LINING-OUT STOCK

| | Per 100 | Per 1000 |
|---------------------------|---------|----------|
| Taxus cuspidata | \$20.00 | \$190.00 |
| 1-yr., 2-in. pot. | 25.00 | 225.00 |
| 1-yr., 3-in. pot. | 25.00 | 225.00 |
| 8 to 10 ins. tr..... | 35.00 | 325.00 |
| Taxus intermedia | 20.00 | 180.00 |
| 1-yr., 2 1/2-in. pot..... | 25.00 | 225.00 |
| 1-yr., 3-in. pot..... | 25.00 | 225.00 |
| 8 to 10 ins. tr..... | 35.00 | 325.00 |
| 10 to 15 ins. tr..... | 60.00 | 600.00 |

COTTAGE GARDENS, Lansing 15, Mich.

LINING-OUT STOCK

| | Per 100 | Per 1000 |
|--------------------------------------|---------|----------|
| Pachysandra Terminalis | \$4.00 | \$40.00 |
| Rep. 2-in. pot. gr. grafts | 75.00 | 750.00 |
| Andromeda Jap. pot gr. R.C. | 25.00 | 200.00 |
| Taxus cuspidata, 1-yr. bedded | 15.00 | 125.00 |
| Taxus capitata, 1-yr. bedded | 25.00 | 250.00 |
| Taxus hickii, 1-yr. bedded | 15.00 | 125.00 |
| Taxus hatfieldi, 1-yr. bedded | 17.50 | 150.00 |
| Taxus brevifolia, 1-yr. bedded | 20.00 | 200.00 |
| Tsuga canadensis, 2-yr. tr..... | 7.00 | 60.00 |

Complete list of liners, including Azaleas, Rhododendrons, etc., on demand.

VERKADE'S NURSERIES, Wayne, N. J.

Azalea Hexe, Christmas Cheer, Pink Pearl, Hinodegiri, strong transplants, \$17.50 per 100.

Azalea Mollis, 2-year transplants, \$15.00 per 100.

Rhododendron, 2-year transplants, Catawbiense, Ponticum and Discolor hybrids, \$25.00 per 100.

Accumulated order of 500 or more, 10 per cent discount. Less than 50, 20 per cent plus. Crating free. Cash with order, please.
RICHARD P. RESSEL
Mullino, Oregon

Write for our list of Azaleas, Rhododendrons and Boxwoods.
LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

AMERICAN NURSERYMAN

ROOTED CUTTINGS FOR SPRING

| | Per 100 | Per 1000 |
|-------------------------------------|---------|----------|
| 2000 Taxus media browni | \$8.00 | \$80.00 |
| 2000 Taxus cuspidata nana | 11.00 | 110.00 |
| 4000 Taxus cuspidata | 8.50 | 85.00 |
| 4000 Taxus cuspidata capitata | 15.00 | 150.00 |
| 2000 Taxus media hatfieldi | 10.00 | 100.00 |
| 7000 Taxus cuspidata nigra | 8.50 | 85.00 |

Cash with order.
Shipped prepaid immediately.
SUNNYBROOK FARMS NURSERY
Chesterland, Ohio.

3000 CANADA HEMLOCK, XXX, B&B, clay loam
1 1/2 to 2 ft., \$1.50; 2 to 2 1/2 ft., \$2.00; 2 1/2 to 3 ft., \$2.50; 3 to 3 1/2 ft., \$3.00; 3 1/2 to 4 ft., \$4.00.

Will trade for assorted pyramidal evergreens if your stock is not in the beetle zone. Due to labor shortage, notify date you send truck.

DAVID KANEFF NURSERY
Route 375 Marietta, Ohio

ROOTED EVERGREEN CUTTINGS

| | Per 100 | Per 1000 |
|----------------------------|---------|----------|
| Pätzner Juniper | \$10.00 | \$100.00 |
| Irish Juniper | 8.00 | 80.00 |
| Andorra Juniper | 10.00 | 100.00 |
| Pyramidal Arborvitae | 10.00 | 100.00 |
| Striata Juniper | 3.00 | 30.00 |
| Retinospora | 8.00 | 80.00 |

May Delivery
SANDERS GREENHOUSE and NURSERY
R. D. No. 1 Monongahela, Pa.

ROOTED EVERGREEN CUTTINGS

| | Per 100 | Per 1000 |
|--|---------|----------|
| Arborvitae, Woodward's Globe..... | \$8.00 | \$80.00 |
| Cypress, Fletcher | 10.00 | 100.00 |
| Cypress, Blue (Alumini) | 8.00 | 80.00 |
| Cypress, Cerula (Columnar Alumini) | 8.00 | 80.00 |
| Cypress, Dwarf Golden (Threadbranch) | 8.00 | 80.00 |
| Juniper, Irish (Fastigiata) | 8.00 | 80.00 |

Immediate delivery. Cash please.

MITTSCH NURSERY
Aurora, Ore.

CAMELIAS

Container-grown Camellias of proven merit exclusively.

J. S. TORMEY
Temple City, California

Wholesale Grower of the Best from the Far West.

STRONG ROOTED CUTTINGS

| | Per 100 | Per 1000 |
|--------------------------------|---------|----------|
| Taxus cuspidata | \$10.00 | \$80.00 |
| Taxus cuspidata capitata | 12.00 | 120.00 |
| Taxus cuspidata erecta | 12.00 | 120.00 |
| Taxus intermedia | 12.00 | 120.00 |
| Taxus media hatfieldi | 12.00 | 120.00 |
| Taxus media hickii | 10.00 | 80.00 |

THE COTTAGE GARDENS,
Lansing 15, Mich.

NEW INTRODUCTION

AZALEA HINO-CRIMSON
Showy, clean, crimson-red, nonfading flower. Large, glossy, dark green foliage. Excellent forcer. A cross between Hinodegiri and Amoenae and harder than Hinodegiri. Ask for color photo. From 2 1/2-in. pots, \$25.00 per 100; limit, 250. Cash with order.
JOHN VERMEULEN & SON, INC.
Westbury, L. I., N. Y.

CHRISTMAS TREE LINERS

2-yr. seedlings, \$30.00 per 1000.
10,000 Norway Spruce, 4 to 8 ins.
5000 Colorado Blue Spruce, 2 to 4 ins.
10,000 Pitch Pine, 8 to 12 ins.
3000 Douglas Fir, 4 to 10 ins.
JOHN D. NORTHRUP

R. D. 1 Conneaut, Ohio
U. S. Route 20, 5 miles west of Conneaut.

AZALEA ROOTED CUTTINGS

100,000 Formosa and some other Indian varieties available for shipment after December 1. \$6.50 per 100, \$60.00 per 1000. No charge for packing.
FLORIDA NURSERY & LANDSCAPE CO.
P. O. Box 97 Leesburg, Fla.

LINING-OUT STOCK

Blota Orientalis, 1-yr. seedlings \$3 to 6 ins. Free packing. \$20.00 per 1000.
EVERGREEN ACRES
U. S. Route 13, McDonough, Del.
P. O. Middletown, Del.

DOUGLAS FIRS

9 to 12 inches, \$10.00 per 100; \$75.00 per 1000. 18 to 36 inches, \$25.00 per 100. Carefully gathered and packed.

COASTAL GARDENS

Sheridan, Ore.
CORAL BELLS AZALEA
Rooted cuttings. Ready now.
\$35.00 per 1000; \$4.00 per 100.
Cash with order.
KRUSCHKE GREENHOUSES
Clackamas, Ore.

PLATTE RIVER JUNIPER, twice-transplanted, sheared once, compact, nice trees. Shipped bare-root, mudded, 24 to 32 ins., \$60.00 per 100. THE HARRIS GARDENS, Enterprise, Kansas.

GARDENIA MYSTERY LINERS from 3-inch pots. FLORIDA NURSERY & LANDSCAPE CO., Box 97, Leesburg, Fla.

FRUIT TREES

MINNESOTA APPLES AND PLUMS

| | 4 to 5 ft. 6 to 7 ft. | 7 to 8 ft. |
|--|-----------------------|------------|
| Prairie Spy | 75c | 85c |
| Haralson | 60c | 65c |
| Minjon | 75c | 85c |
| Chestnut Crab | 85c | 90c |
| Dolgo Crab | 65c | 75c |
| Hopa Crab | 85c | 90c |
| Minn. No. 790 | 65c | 75c |
| Plums: Sapa, Waneta, Underwood, Kahlita, Monitor, 4 to 6 ft., 75c. Wholesale lots and cash only. | | |

SWEDBERG NURSERY, Battle Lake, Minn.

HARDY GRAFTED NUT TREES
Crath, Carpathian, English Walnut, Black Walnut, Butternut, Heartnut. Orders for less than 10 not accepted. Price list on request.

BERNATH'S NURSERY

R. D. 1 Foughkepaie, N. Y.

PRUNUS PISSARDI—1 to 1½-in. cal., 6 to 7 ft., \$17.50 to 100; \$160.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Va.

GRASS

"CENTIPEDE" LAWN GRASS

No Mowing Needed

Only grass known which doesn't need mowing. Plant in old or new lawns. Plant any time weather not freezing. Write card for wholesale circular.

CENTIPEDE NURSERY

Route 4 Jackson, Miss.

HARDY PLANTS

PHLOX

These plants are one-year, hardy field-grown. All bloomed last year in the nursery row. Available for immediate shipment. Plants are in cold storage, in excellent condition for planting.
100 rate applies on orders of 30 or more of one variety.

| | Per 100 |
|--|---------|
| Annie Laurie. Rich, deep salmon. | \$15.00 |
| Antoinette Six. A beautiful new pure white variety. | 18.00 |
| Apollo Red. Deep rose-red, shaded crimson. | 15.00 |
| Apollo White. Splendid white, large individual flowers. | 15.00 |
| Brilliant. Scarlet with darker eye. | 12.00 |
| Caroline Vandenberg. A fascinating shade of lilac-blue. | 15.00 |
| Champs Elysees. Rich purple. | 12.00 |
| Charles Curtis. Sunset-red. Excellent new variety. | 15.00 |
| Daily Sketch. Lustrous pink with crimson-rose eye. | 15.00 |
| Frau Dr. Klemm. White. | 12.00 |
| let eye | 14.00 |
| E. I. Farrington. Salmon-pink. | 15.00 |
| Enchantress. Bright salmon-pink with a dark eye. | 15.00 |
| Eva Forester (Salmon Beauty). Bright salmon-rose with light center. | 15.00 |
| Fairy King. The loveliest lavender. | 18.00 |
| F. G. Von Lassburg. A tall white Phlox. | 12.00 |
| Gen. Petain. Deep wine-red. | 14.00 |
| Gen. Van Heutz. Brilliant salmon-red color, pure white center. | 14.00 |
| Graf Zeppelin. Ivory-white flowers with vermillion-red eyes. | 14.00 |
| Hauptmann Koehl. Glowing full-toned red. | 15.00 |
| Irene. Cherry-red. Very new. | 18.00 |
| Jules Sandeau. Rosy-pink. Large petals. | 12.00 |
| July Lights. Flowers early, foret shaded soft red with blood-red eye. | 15.00 |
| Mrs. Ethel Pritchard. Self shade of rose-mauve, large flowers. | 12.00 |
| Painted Lady. Appealing peach color with a pink blush. | 15.00 |
| Pantheon. A deep salmon-rose. | 12.00 |
| P. D. Williams. Brilliant pink with rose center. Extra-large forets. | 15.00 |
| Prime Minister. Extra-large forets of clear white with violet eyes. | 14.00 |
| Progress. Superb light blue, set off with deeper purple-blue eyes. | 18.00 |
| Purple Heart. Flowers large size. Color brilliant shade of deep blue-purple. | 20.00 |
| Very new | 20.00 |
| Rheinlander. A beautiful salmon-pink with carmine eye. | 12.00 |
| Rosenberg. Deep violet-cerise, darker center. | 12.00 |
| Ruby Lee. Extra-large plum-red flowers. New variety. Prolific bloomer. | 20.00 |
| Silvertone. Florets pale lavender with a glowing purple eye. | 14.00 |
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Shenandoah, Iowa

One of America's Foremost Nurseries

E. S. Welch, President

VINCA MINOR.

Good, strong, healthy plants, 8 to 12 in. tall, 5 to 12 vines to a clump. Well packed for shipment.

Clumps: \$10.00 per 100; \$95.00 per 1000.

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New Galilee, Pa.

CHRYSANTHEMUMS

New and Better Hardy Chrysanthemums of Merit.

Especially selected for their outstanding garden value, their usefulness as a cut flower and their brilliant and distinctive color and shades.

| | Rooted Cuttings | Potted Plants |
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| | | |
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Send for our complete wholesale list featuring many other varieties of Hardy Chrysanthemums, as well as a complete line of new and better Hardy Plants.

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Westminster, Md.

NEW HARDY EARLY-BLOOMING MUMS

Every nurseryman should grow an assortment of these fine hardy chrysanthemums, as no other item is comparable in producing quick profits.

Our assortments include the New Minnesota, University of Chicago, English and other proved introductions. All selected for hardiness, showy colors, combined with an early, long blooming season.

Our test gardens here in Kansas, where many rigorous winters and hot dry summers are experienced, prove the stamina and prolificness of varieties we grow and sell in these assortments.

You will like our selection of these fine mums which include all types and colors. A gorgeous blooming up-to-date assortment, all labeled true-to-name varieties.

Rooted cuttings ready now or later.

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| 25 Named Var., 2 ea. | 50 plants | \$ 6.50 |
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Potted 2-in. Bird (Vita-Banda)

All labeled (Equal to 2½-in. Clay Pots)
If you order now and request shipment at planting-out time, plants will be hardened outside, ready for field. This saves the busy nurseryman much labor and expense, besides assuring 100 per cent growth of thrifty blooming plants for fall sales.

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| 25 Named Var., 2 ea. | 50 plants | \$ 8.00 |
| 25 Named Var., 5 ea. | 125 plants | 15.00 |
| 25 Named Var., 10 ea. | 250 plants | 25.00 |
| 50 Named Var., 2 ea. | 100 plants | 15.00 |
| 50 Named Var., 5 ea. | 250 plants | 35.00 |
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HARDY FIELD-GROWN PERENNIALS OF FIRST QUALITY

All are in the field. Shipment can be made promptly.

AQUILEGIA LONGISSIMA, Yellow. Delicate yellow with extra-long spurs. Fragrant and fine. \$1.50 per 10; \$12.00 per 100.

CARNATION HARDY GRENADIN, The hardest of the Carnations. Very double and very free-flowering; extremely fragrant. Salmon Queen, Golden Sun, King of the Blacks, Rose Queen, Scarlet, White and Yellow, \$1.25 per 10; \$10.00 per 100.

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FIELD CLUMPS

These are not divisions, but all are 1 and 2-year-old FIELD CLUMPS. They are just right for particular customers. Free of disease and of first quality. \$1.75 per 10; \$15.00 per 100.

AUTUMN LIGHTS. Very hardy, semidouble, coppery-bronze and orange.

EARLY BRONZE. An early-flowering pompon with a beautiful orange-bronze bloom.

GOBLIN. 2-inch blooms of warm bronze, shading to sparkling gold.

GOLDEN CHARM. Double golden-yellow blooms completely cover this thrifty grower.

LAVENDER LADY. Very double, free-flowering, true lavender.

PINK CHARM. Clean 3-inch blooms on strong stems. Pink, with bright yellow center. Strong grower, medium height.

PINK CUSHION. Dwarf plant with hundreds of orchid-pink blooms.

PYGMY GOLD. Fine dwarf, clean golden-yellow pompon, about 1 inch in diameter.

ROSE GLOW. Raspberry-rose-pink. Very neat appearing.

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SANTA CLAUS. Large red blooms on a dwarf plant, usually classed with the cushion mums.

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SONNY BOY. Early-blooming yellow pompon. Well named.

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Waynesboro, Pa.

ROOTED CUTTINGS OF HARDY MUMS

\$1.00 per 10.

Aglow, Algonquin, Apricot Glow, Arctic Queen, Aurora, Autumn Lights, Autumn Greetings, Autumn Song, Autumn Tide, Autumn Sunlight, Avianche, Aviator, Barbara Small, Betty, Bambi, Bonfire, Boreas, Bronze Cushion, Bronze Pyramid, Burma, Butterball, Calcite, Calendula, Charles Nye, Chippewa, Champion Cushion, Dahlia Mum, Dee Dee Ahrens, Dean Kay, Dubonnet, Drifted Snow, Duluth, Early Harvest, E. A. Guest, Eola, E. A. Wander, Eolwy, Early Joan Helen, Fireglow, Garden Queen, Glacier, Glomero, Greylock, Gold Treasure, Harbinger, Harmony, Heatherbloom, Ida Brewster, Irene, Lavender Lady, Lavender Lassie, Little Eakimo, Lodemine, Louise Schling, Mandalay, Maroon 'N Gold, Morning Glow, Mrs. C. R. Hastings, Monantico, Mrs. Du Pont, North Star, Olive Longland, Orchid Spon, Pygmy Gold, Pink Radiance, Pipestone, Pink Cushion, Pohatcong, Polar Ice, Primula, Purple Star, Queen Cushion, Red Bank, Red Gold, Red Hussar, Red Riding Hood, Robert Brydon, Redas, Red Wing, Red Velvet, Sam Williston, Sequoia, September Dawn, Santa Claus, September Bronze, September Sunshine, Sunbeam, Sundance, Sunkist, Sunny Boy, Sunred, Stalwart, Supreme, Yellow, Tasvia, The Chief, Thalia, The Moor, Tusore, Vivid, Violet, Waterlily, Welcome, Wm. Longland, Yellow Cushion, Yellow Irene.

ROOTED CUTTINGS, \$1.50 per 10.

Allegro, Courageous, Garnet, a Guest, Coals, Heathfare, Klondike Gold, Lola, Morning Star, Purity, Serene, Sienna, Simba, Southwind, Zantha.

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Alabaster, Alpink, Balcombe Gold, Bronze Buttercup, Bronze Freda, Bronze McLeod, Buttercup, Challenger, Cerise, Crimoon Buttercup, Eldorado, Elite, Flashlight, Gold Mine, Gold Standard, Hector, Hillcrest Red, Leda, Maryland Dome, Mrs. Dor, Melvor, Mrs. T. Guthrie, Red Harlow, Sandy Ritchie, Scarlet Coast, Tiger, Vulcan, Westbourne.

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Alexander, Mason, Adoration, Avondale White, A. E. Cooper, Cyril Coleman, Crusader, China Gold, Dignity, Don Juan, Forward, Geo. Barnes, Early Ace, Gladiator, Golden Security, Gladstone, Golden Dome, Harvest Moon, Henry Sutcliffe, Hoopoe, Jim Thorpe, John Baxter, LePacole, Mennon, Mrs. J. H. Milner, Orange Glow, Pink Freda, Woking Bronze, Mrs. Smeardon.

Per 100, 8 x the 10 rate.

Price per each, 10c over the 10 rate.

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TRANSPLANTED PERENNIALS
Grown in field beds in sandy loam.

Aquilegia Longissima Hybrida, long-est-spurred variety, in mixed colors only \$10.00

Carnation Super Giant, mixed colors; flowers 1/2 larger than Chabaud, 8.00

Delphinium Pacific Giant, grown from Vetterli & Reinelt's hand-pollinated seeds. These are the finest available in this famous strain. Round Table Series only 12.00

Primula Polyantha Pacific strain 10.00

A few larger 12.00

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SEEDLINGS, Summer-sown

Coreopsis Sunburst, Double Gold 3.00

Coreopsis Mayfield Giant, single golden-yellow 3.00

Geum, Lady Stratheden, yellow 3.00

HARDY CHRYSANTHEMUM BARGAIN
Rooted cuttings of about 60 varieties, including many of the newer English ones. All good cut flower varieties. Offered in mixture only. A real bargain at \$45.00 per 1000. Less than 250 at 5c each. Minimum, 50.

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Rhubarb, Chipman's Canada Red, Per 100 2-yr., No. 1 division \$35.00

Platycodon, new shell-pink 20.00

Delphinium, Pacific Hybrid 15.00

Aquilegia, Blue Shades, Copper Queen, Crimson Star 10.00

Sage, edible 10.00

Phlox atropurpurea 10.00

Phlox paniculata; 200 Apocryse; 625 Africa; 500 Starlight; 500 Progress; 700 Mary Louise; 800 P. D. Williams; 1000 Colonial; 4000 Mrs. Jenkins; 3500 Rosea Superba; 7000 Wanadis 10.00

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HARDY ASTERS

Strong field clumps, Per 10 Per 100

ADORA (Imp. Harr. Pink) \$2.50 \$20.00

COUNTRESS OF DUDLEY (Dwarf pink) 2.50 18.00

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LADY MADDOCKS (Light pink dwarf) 2.50 18.00

MARJORIE (Dark pink dwarf), 2.50 20.00

No packing charge. Cash price. No C.O.D. We have over 500,000 new English mums, Cushion mums and other choice hardy varieties. These are offered in rooted cuttings, field clumps and pot plants. Write for list.

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Elkhart 6, Ind.

DELPHINIUM BELLADONNA IMPROVED
Per 100 Per 1000

August-sown field seedlings . \$ 2.25 \$ 13.50

1-yr. seedlings 3.50 30.00

2-in. potted 6.00 55.00

1-yr. transplanted 12.00 100.00

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2-in. potted 8.00 75.00

MOUNT SHASTA DAISY
1-yr. transplanted 25.00

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Hardy Ageratum, E. coal. 5.00

Send for trade list.

STRATFORD GARDENS, Delaware, O.

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Hardy Chrysanthemums: Amber Glow, Sioux, Red Plume, Sunkist, Mrs. Hastings, Autumn Light, Zeeman, VIVID, Sc. Silver Ball, Yellow Anemone, Red Cushion, Pink Cushion, Sc. Koreans, Ic. Artemisia Lactiflora; Allium Tanguticum; Centaurea Macrocephala, Ruthenica, Dealbata and Fritachi, White Swan Daisies, Sc. Veronice; Blue Day and Amethystina, 10c. Siberian or German Iris, mixed, Adenophora Lillifolia, Sneermlint, H. & E. Daisies, Ic.

HILLVIEW GARDENS, Fort Madison, Iowa

CLOSE-OUT

HARDY MUMS

100 of 10 varieties, \$7.50

10 per cent discount 250 or over.

Including all the newer varieties, such as: Fireglow, Magnolia, Mandalay, Ruby, Red Velvet and many other top varieties. A complete range of color in each 100.

Algonquin, golden-yellow, for cut, \$6.00 per 100; \$50.00 per 1000.

Cash with order.

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TRITOMA PFITZERI
Large divisions, \$8.00 per 100, \$75.00 per 1000.

QUALITY GLADIOLUS GARDENS
St. Anne, Ill.

HARDY FERNS, \$6.00 per 100.
Ostrich, Lat. Clayton and Maidenhair.

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Taylors Falls, Minn.

CARNATION CRIMSON KING
Dark red hardy Carnation.

2-inch pot plants, \$18.00 per 100.

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PHLOX LINERS

\$2.00 per 100; Rheinlander, light salmon-pink; Prime Minister, white, red eye; R. P. Struthers, scarlet; Mrs. Harding, pink.

\$4.00 per 100; Eva Forester (Salmon Beauty), pink, white eye; Pink Charm, salmon-pink; Hauptmann Koehl, deep red; P. D. Williams, light pink, deeper eye.

Delivery now. Packed in bundles of 50. Minimum of one variety, 50.

McINCH GREENHOUSES
St. Joseph, Mo.

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Send for our 1947 catalog.

Cultural notes on cut flowers and pot plants.

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Rt. 2, Delaware, Ohio

Send us your perennial want list.

Perennial price list now available.

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Perennial Growers

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DICENTRA SPECTABILIS, 2 to 5 eyes, \$40.00 per 100. DICENTRA EXIMIA, 3 to 5 eyes, \$20.00 per 100. Cash with order.

J. HENDRIKS, Grower, Portage, Mich.

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It's cheaper than mailing out a want list.

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Overplanted on peach pits. Will June bud and grow varieties desired under contract. 2 full acres. Reasonable. If interested, visit or write.

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PEACH PITS, southern-collected; high germination. \$5.00 per bu. Fruit trees; Shrubs.

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12,000 Multiflora Japonica, thornless, 9-in. cuttings, \$7.00 per 1000.

150 Pussy Willow, 3-yr., 5 to 6 ft., \$4.00 per 10.

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1000 Honeysuckle (Lonicera) Pink Tatarian, 2-yr., 18 to 24 ins., \$15.00 per 100.

500 Spiraea Trichocarpa, 2-yr., 2 to 3 ft., \$17.00 per 100.

2000 Spiraea Vanhouttei, 2-yr., 2 to 3 ft., \$15.00 per 100.

400 Red Lake Currants, 1-yr., No. 1, \$15.00 per 100.

1000 Fredonia Grapes, 2-yr., No. 1, \$15.00 per 100.

FINGER LAKES NURSERIES, Geneva, N. Y.

Per 100

Viburnum Carlesii, 2 1/2-in. pots \$30.00

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Andromeda Japonica, rooted cuttings 11.00

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21 Roosevelt Ave., Huntington St., L.I.N.Y.

PRIVET, CALIFORNIA—1-yr., heavily branched.

Per 1000

18 to 24 ins. \$50.00

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Row-run, 15 to 30 ins. 40.00

Discount on quantities. Over 5000 shipped free by our truck within 150-mile radius.

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U. S. Route 13, McDonough, Del.

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REMOVAL SALE
15 acres of nursery stock have to be sold at once. Medium to large sizes.

30 varieties of Evergreens

19 varieties of Deciduous trees

28 varieties of Flowering Shrubs.

A complete listing and prices will be sent on request.

SWAN RIVER NURSERY
Patchogue, L. I., N. Y.

MULTIFLORA ROOT STOCKS
1 to 2 mm., \$10.00 per 1000.

30,000 available.

BROWNELL ROSES
Little Compton, R. I.

NORWAY MAPLES (REMOVAL SALE)
600 trees, 4 to 6 inches in caliper, planted in nursery 8 by 8 feet. Write for prices.

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FIELD-GROWN ROSES

Northern-grown, No. 1

Christopher Stone, Golden Charm, Etoile de Hollande, Caledonia, Tallisman, Pres. Herbert Hoover, McGredy, Grenoble, Poinsettia, Sunburst.

Do not confuse these with cheap southern roses. Individually wrapped for counter trade. No less than 100 in any colors. Cash with order. No packing charges, \$49.00 per 100. F.O.B. Cincinnati. Immediate shipment.

D. RUSCONI SEED CO.
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ROSES FOR BENCHING for January, 1948, delivery. Most economical way! GROWN IN SAN JACINTO VALLEY, CAL. You supply the buds in May; we deliver the plants in January, 1948. Have only 10,000 to 15,000 grade-A Manetti left. Hurry and Contract Now!

F. J. BOOY NURSERIES
Mendham, N. J.

F. J. BOOY NURSERIES
Route 1, Box 197, San Jacinto, Cal.

LILACS, French Hybrids and Standard varieties. One-year grafts, best flowering varieties. \$25.00 per 100, \$225.00 per 1000.

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Deerfield Street P. O., N. J.

Surplus Stock can be easily and quickly turned into Cash

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WHOLESALE PRICE LIST, 1947

VEGETABLE PLANTS

| Plant Variety | Date Ready | Per 1000 |
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| CABBAGE | Now | \$2.00 |
| ONION | Now | 1.25 |
| LETTUCE | Now | 3.00 |
| BEETS | Now | 1.50 |
| BROCCOLI | Now | 3.00 |
| CAULIFLOWER | Now | 7.50 |
| PEPPERS | Now | 3.50 |
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All above prices F.O.B. Albany.

Leading varieties.

Large, fresh plants. Prompt shipment.

WHITE or WIRE

PIEDMONT PLANT CO.
Albany, Ga.

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WASHINGTON ASPARAGUS ROOTS
3-yr., immense, for store trade, \$22.00 per 1000, \$25.00 per 100.

2-yr., special price, \$11.00 per 1000, \$2.00 per 100.

1-yr., \$9.00 per 1000, \$1.25 per 100.

Remember that New Jersey grows more fresh Asparagus than any state except California.

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VICTORIA AND LINNAEUS RHUBARB
ROOTS for immediate delivery.

1 1/2 to 2-in., \$40.00 per 1000; 1 to 1 1/4-in., \$25.00 per 1000; 3/4 to 1-in., \$20.00 per 1000; 1/2 to 3/4-in., \$15.00 per 1000; 1/4 to 1/2-in., \$7.50 per 1000. Boxing, extra. Get your supply now.

ASHCRAFTS PLANT NURSERY, Copemish, Mich.

VICTORIA RHUBARB, No. 1, 1 to 2-in. caliper crowns, \$1.25 per 10, \$10.00 per 100; Super-size, 2 to 2 1/2-in. caliper, \$2.00 per 10, \$15.00 per 100. See pages 15 and 17 of the February 15 issue of the American Nurseryman for other Nursery Stock.

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Waynesboro, Va.

Horse-radish Crowns, 1-in. and up, 4c ea., \$3.00 per 100.

Sage Plants, heavy, 2-yr., No. 1 plants, 10c ea.

Asparagus, \$1.50 per 100; \$12.50 per 1000.

BENTON COUNTY NURSERY CO., INC.
Rogers, Ark.

HORSE-RADISH ROOTS
Whole Crowns, \$3.75 per 100.

Roots, \$11.00 per 1000.

New Jersey-grown; none better flavored anywhere.

WARREN SHINN, Woodbury, N. J.

HERBS
Tarragon, Mints, Sage, Thyme, Lavender, Twickie's Purple Lavender, Lemon Balm, etc. 1-yr., 25c each; 2-yr., 50c each.

WARREN SHINN, Woodbury, N. J.

CHIVES
\$1.00 per doz., \$6.00 per 100, \$40.00 per 1000. Other Herbs. List sent.

WARREN SHINN, Woodbury, N. J.

VINES
GRAPEVINES
Fredonia, black; Niagara, white.

2-year, No. 1 \$3.25 \$12.00 \$85.00

2-year, No. 2 2.50 8.50 65.00

2-year, No. 3 1.75 6.00 45.00

Write for prices on other fruit plants.

E. W. HUEBNER NURSERY
Stevensville, Mich.

MISCELLANEOUS

2000 Cumberland Raspberry, No. 1 tips, heavy, disease-free, \$40.00 per 1000, \$4.50 per 100.
2000 Coral Lilies, blooming size, \$50.00 per 1000, \$5.00 per 100.
400 Lily of the Valley pipe, \$2.00 per 100.
300 Phlox, pink shades, \$6.00 per 100.
Cash with order. Packing free.
Also one trencher and firmer.
LE MARS NURSERIES, Le Mars, Ia.

OFFERING FOR SPRING, 1947

Aparagus, 2-yr. Rhubarb, MacDonald and Sutton, Barberry Thunbergi, 2-yr., branched seedlings. Climbing American Beauty Roses, Shrubs, Chrysanthemums and a wide assortment of other hardy, field-grown perennials. Write for Trade Circular.
BROWN BROTHERS CO.,
Brighton Sta. Rochester 10, N. Y.

FLOWER SEEDS—SOIL HEATING

Special stocks of California flower and bulb seeds. General Electric soil heating units. Write, **RANSOM SEED CO.,** San Gabriel, Calif.

SUPPLIES

A Pure Sedge Peat, analyzed 2 to 2½ per cent Nitrogen; 96 per cent Humus; Acidity 5.3 to 5.8; only weighing 20 lbs. per bushel; takes the 4th-class low freight. Used and adopted by the nurseries of 43 states for starting cuttings and replanting nursery stock. The best natural Humus available today. Shipment made same day order received. This is not a Moss Peat or Muck, but a Genuine Sedge Peat.

1 to 10, 2-bu. bags, F.O.B. \$1.25
11 to 50, 2-bu. bags, F.O.B. 1.10
51 to 100, 2-bu. bags, F.O.B. 1.00
101 to 200, 2-bu. bags, F.O.B. .90
400-bu. bulk delivered by our trucks within 150 miles from our plant, 40c per bu. Place your order early; check with order. A proven product.

Mel-lo a great name in Peat.

MEL-LO PEAT CO.

Box 195 Willard, Ohio

KNOCK-DOWN FLATS

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.
16x12x2½ \$16.25 per 100
16x14x3½ 20.50 per 100
20x14x3½ 20.00 per 100
30x14x3½ 23.00 per 100
22½x15x3½ 22.00 per 100
22½x15x3½ 25.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

FINE-SCREENED DOMESTIC PEAT.

Acid pH 4-8. Some Nitrogen.
Our peat is excellent for lawns, cold-frames, perennial seedbeds and preparing soil for evergreen and shrubby plantings.
Per 2-bu. bag
1 to 4 bags \$2.00
5 to 24 bags 1.00
25 to 49 bags85
50 to 100 bags80
Write for price on bulk carload. We ship same day order is received. Order early. Cash, please.
HAASE BROS.
116 S. Jefferson St. Peoria, Ill.

REDWOOD TUBS

Ornamental, excellent for Camellias, Palms and other large plants. 12-sided tubs, mitred to fit tight. Surfaced inside and out; all pieces firmly held by 2 galvanized steel bands. Heavy material, no nails used in construction.
10-inch \$1.00
12-inch 1.40
14-inch 1.80
16-inch 2.10
20-inch 2.95

L. E. COOKE CO.

417 Vista St. San Gabriel, Cal.

PROFIT WITH PERF-O-RAIN.

Rain when you want it—Low pressure—Rectangular strip watered—No overlap—No sprinkler heads or other gadgets—Portable lightweight pipe—Long life. Write for free folder. **W. R. AMES COMPANY OF FLORIDA,** 3906 E. Broadway, Tampa 5, Florida, or **W. R. AMES COMPANY,** 150 Hooper St., San Francisco 7, Cal.

BURLAP AND COTTON SQUARES, 25x25 ins., strictly new materials, \$37.50 per 1000. Order your spring requirements while this bargain lasts. Cotton branded with Red Star makes most attractive plant. Samples, 5c each. **THE TANKARD NURSERIES,** Franktown, Va.

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Direct from the drying beds.
Burlapped or wired bales.
Trucked when possible.
WARENS MOSS CO.

Box 7 Warrens, Wis.

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40 ft., 200 W. Cable for 20 sq. ft. \$1.60
80 ft., 400 W. Cable for 40 sq. ft. 3.20
Air Thermo, with pilot light, 3.75
Soil Thermo, with pilot light, 3.50
Immediate del. See adv. this issue.
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4-year-old transplants, in 1000 lots for spring of 1948: Norway, Douglas, Engelmann and Balsam. Write
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TRADE BOOKS.

Suggestions for nurserymen and their employees:
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DEVELOPING NURSERY SALES AND DISPLAY GROUNDS, by Harold E. Hunsiker, \$1.00.
COMPILING A NEW NURSERY LIST, by L. C. Chadwick, 2 booklets listed below, 80c.
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SELECTION OF BROAD-LEAVED EVERGREENS, by L. C. Chadwick, 50c.
PROPAGATION OF PLANTS, by M. G. Kains and L. M. McQuesten, \$3.50.
PROPAGATION OF HORTICULTURAL PLANTS, by G. W. Adriance and F. R. Brison, \$3.25.
MAINTENANCE OF SHADE AND ORNAMENTAL TREES AND SHRUBS, by F. P. Pirone, \$5.00.
THE FRENDLY EVERGREENS, by L. L. Kumlien, \$5.00.
TREE EXPERTS' MANUAL, by Richard R. Fenska, \$5.00.
GARDEN PLANNING AND BUILDING, by Stuart Orloff and Henry B. Raymore, \$2.75.
HOW TO LANDSCAPE YOUR GROUNDS, by L. R. Johnson, \$3.00.
LANDSCAPING THE HOME GROUNDS, by L. W. Ramsey, \$2.00.
GARDEN DESIGN, by Marjorie Sewell Cautley, \$5.00.
TREES AND SHRUBS FOR LANDSCAPE EFFECTS, by M. C. Coffin, \$3.00.
ORNAMENTAL AMERICAN SHRUBS, by William R. Van Dersal, \$4.00.
HANDBOOK OF FERTILIZERS, by A. F. Gustafson, \$2.00.
SOILS AND FERTILIZERS FOR GREEK HOUSE AND GARDEN, by Alex Laurie and D. C. Kiplinger, \$2.50.
THE NATURE AND PROPERTIES OF SOILS, by T. L. Lyon and H. O. Buckman, \$3.85.
DISEASES AND PESTS OF ORNAMENTAL PLANTS, by Dr. Bernard Dodge and W. L. Rickett, \$5.50.
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PLANT PROPAGATION by Alfred C. Hottes, \$2.50.

Descriptive book circulars available on request.
These books may be obtained, postpaid, at the publishers' prices indicated, from
AMERICAN NURSERYMAN
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100 rate, each
Azalea mollis, beds, X, 1000 rate, \$0.10
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Euonymus europaeus, .08
X, 6 to 12 ins., .10
Euonymus patens, X, 3 to 6 ins., .10
Euonymus vegetus, X, 3 to 6 ins., .10
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4 to 6 ins., .35
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Rhododendron Hybrid, XXX, 4 to 6 ins.

ROOTED CUTTINGS (Ready, May-June)

100 rate, each
Andorra Juniper, 4 to 8 ins., \$0.10
Ilex bullata, 2 to 4 ins., .10
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Ilex rotundifolia, 2 to 4 ins., .11
Ilex crenata, 2 to 4 ins., .10
Irish Juniper, 4 to 8 ins., .10
Juniper stricta, 4 to 8 ins., .10
Juniper pfitzeriana, 4 to 8 ins., .12
Geo. Peabody Arborvitae, 4 to 8 ins., .14
Retinospora plisifera aurea, .12
4 to 8 ins., .12
Retinospora filifera aurea, .12
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Pieris japonica, 2 to 4 ins., .14
Leucothoe catesbaei, 2 to 4 ins., .14
Globe arborvitae, 2 to 4 ins., .10
Taxus brevifolia, 2 to 4 ins., .12
Taxus cuspidata, 4 to 8 ins., .11
Taxus capitata, 4 to 8 ins., .14

TERMS: Cash With Order; No C. O. D.
No packing charge on Lining-out Stock.
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Francis A. Robinson, president, is a partner of Robinson & Parnham, member of American Association of Nurserymen; in active professional landscape practice for 36 years.

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50-YEAR-OLD CATALOG.

A few years ago, I bought the Munson nursery, of Denison, Tex., since T. V. Munson and his son, Will B. Munson, had both passed away, and the management of the nursery had proved too much of a burden to the son's widow. I bought it to secure the strains of fine grapes which Mr. Munson had created, the better ones of which have all been preserved and are being grown at the Texas experiment station for grapes, at Montague.

Among other things that came into my possession with the nursery were some old catalogs. I have before me the catalog put out by T. V. Munson & Sons Nursery in 1896-1897, the back of which shows the various medals and awards which Mr. Munson had received from the American Pomological Society, the World's 1885 Industrial Cotton Centennial Exposition of New Orleans and the government of France, dated 1889.

The thing that interests me most about this catalog is the prices, which I judge were representative of the nursery trade in the gay nineties. Peaches and apples were 10 cents for the 3 to 4-foot grade, and the 4 to 6-foot grade was 15 cents. Then there were discounts of fifteen per cent if you ordered \$5 worth of stock; if the order amounted to \$20, you were entitled to twenty-five per cent discount, and if your order amounted to \$40 or more, you were entitled to forty per cent discount. If the order amounted to \$60, you were entitled to wholesale rates, which were not quoted. This would mean that if you ordered \$40 worth of peach trees or apple trees, you could buy the 3 to 4-foot grade at 6 cents and the 4 to 6-foot grade for 9 cents.

Another interesting thing about this catalog is the number of varieties listed of the different fruits. Mr. Munson listed forty varieties of apple, thirteen varieties of pear, six varieties of almond, ten varieties of apricot, fifty-one varieties of peach, forty-one varieties of plum and sixty-five varieties of grape.

Among other things stressed in this catalog was the fact that the company had a telephone. It was felt that the customer could well afford to leave the selection of varieties to Mr. Munson, because of his knowledge of their adaptation. He stated that he was anxious to make all plants the customers bought successful ones; that the propagation methods were those used by the largest, most intelligent and most successful growers, and that the nursery had no patent

WANT ADS

Help and Situation Wanted
and For Sale advertisements.

Display: \$3.00 per inch, each insertion.
Lines: 25¢ line; Minimum order \$2.00.

POSITION WANTED

Available June 1; age 50; present employment, General Manager in complete charge of all activities of a successful corporation specializing in roses, wholesale and retail, and landscape construction; 30 years' experience in horticultural field; well known. All correspondence confidential. Address Box 493, care of American Nurseryman.

HELP WANTED

Nursery superintendent, a man with several years' experience growing evergreen stock, wanted by a progressive wholesale nursery in midwest state. Must be capable of directing activities of 40 to 50 men and assume charge of production operations. This is an excellent opportunity for an aggressive man. Give full details of past experience, references and salary desired. All replies will be confidential. Address Box 491, care of American Nurseryman.

HELP WANTED

Propagator or young married man interested in learning to propagate stock. We can supply house to live in and want someone interested in something permanent.

FAIRVIEW
EVERGREEN NURSERIES,
Fairview, Pa.

HELP WANTED—If you are a capable and reliable man with nurseryman experience, some knowledge of propagation and sales, I can offer you a future. 1. A new nursery and salesyard, ½ mile from Amarillo, specializing in lath house, plants in containers, and some glasshouses. 2. Manager for old-established nursery of 50 acres fully equipped, 4 miles from Amarillo on main highway. We grow 25 to 30 acres of vegetables each summer on this place. J. E. BOWMAN, owner, 1719 Tyler St., Amarillo, Texas. Phone 2-6294.

SITUATION WANTED—Are living quarters available? Your opportunity to secure the services of a competent all-around nursery and landscape designer and salesman. Age 30, ex-GI, small family, grew up in the nursery, landscape and tree-service business. 2½ years' botany major, 3½ years' engineering, drafting, designing and surveying. Available immediately. Write for detailed service record or interview. Address Box 494, care of American Nurseryman.

WANTED—Nursery doing predominantly cash-and-carry business; Ohio or southern Michigan or neighboring states. One or two modern residences. Address Box 492, care of American Nurseryman.

NURSERYMEN—Greenhouse and Nursery properties. Licensed Realtors, specialists in this type of property. List with us for good results. HORTICULTURAL REALTY CO., 135-39 Northern Blvd., Flushing, N. Y.

RUBBER-TIRED WHEELBARROWS

Steel tray. Built for heavy work and constant use. Capacity, 4 cubic feet. Tray size, 35 x 30 inches. Ball-bearing wheel with rubber tire. Hardwood handles.

IMMEDIATE SHIPMENT.
Each, \$27.50.

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Equip your present wheelbarrows with these timesaving ball-bearing wheels with rubber tires. Sturdy cast metal wheels and low-pressure rubber tires, 16 x 4 inches. Maximum load, 450 lbs. Hub length, 6 ins. Axle diameter, 5/8 in.

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Heavy-duty, alloy steel. 2/3-length (15-in.) steel straps.

Steel D-handle. Weight, 5 1/2 lbs.
Square point. Each, \$4.25
Diamond point. Each, 4.40

TREE-DIGGER SPADE

Heavy-duty, special alloy steel blade with flat cutting edge and turned steps. Full-length steel straps. Tapered blade, 13 ins. long.
Each, \$5.50

GARDEN SPADE

Fine-quality. Square point, hardwood D-handle.

Each, \$2.00; 6 for \$9.00.

SPADING FORK

Heavy-duty. D-handle, 4-tine.
Each, \$1.85; 6 for \$8.10.

NURSERY PRUNING KNIFE

Heavy, curved hook blade, 3 1/4 ins. long. Hardwood handle. Over-all length, 7 1/4 ins.

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A. F. S. "Easi-Off" WOOD PLANT BANDS



Saves time and labor. Bands are removed without cutting; therefore, the dirt ball and roots are not disturbed...

| CAT. | Size in inches | Weight per 1000 | Per 1000 |
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| No. M-310 | 1 1/2 x 1 1/2 x 2 1/2 | 12 lbs. | \$3.55 |
| No. M-320 | 2 x 2 x 2 1/2 | 15 lbs. | 3.00 |
| No. M-340 | 2 1/2 x 2 1/2 x 3 | 20 lbs. | 4.20 |
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Packed 1000 to the carton.
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LIGHT WOOD FLATS

For handling and shipping our 1 1/2-inch and 2-inch sizes of Plant Bands. Per 100

M-370; holds twelve 1 1/2-inch Bands. \$2.75
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M-392; holds twelve 2 1/2-inch Bands. 3.75
M-393; holds six 3-inch Bands. 3.55
M-394; holds six 4-inch Bands. 3.95

Packed 100 to the carton. We do not break cartons. Shipped promptly from the factory in Michigan.

ALUMINUM TROWEL

All one piece. Will not bend or rust. Full deep blade. Will last a lifetime.
Each\$0.75 Dozen\$7.50

possession nor "whole root" humbug, but it sent out nursery stock which was as well rooted as any other nursery could produce.

Ross R. Wolfe.

GARDEN INSTITUTE ELECTS OFFICERS.

With thrift gardens replacing victory gardens and the Liberty Hyde Bailey award supplanting the General Douglas MacArthur award, the National Garden Institute continues its activities into the peacetime years.

Youthful gardeners who exhibit unusual skill will be awarded 5,000 bronze medals bearing the likeness of Dr. Liberty Hyde Bailey. These medals will supplant the General Douglas MacArthur awards, over 50,000 of which were given in the past two years to the top five per cent of young gardeners, through such organizations as the Boy Scouts of America and 4-H Clubs.

Officers of the National Garden Institute, elected at a recent meeting at Chicago, Ill., are as follows: Chairman of the board of trustees, Lloyd C. Stark, Louisiana, Mo.; president, Rodney H. Brandon, Batavia, Ill.; honorary vice-president, M. L. Wilson, Washington, D. C.;

TIMELY NECESSITIES for Prompt Shipment

• "HOLLANDIA" BURLAP SQUARES

New Material, Soft, Easy to Tie; Saves Time Labor and Twine.

• REED MATS for coldframes

• "GIBRALTAR" Frost Covers

• "COTTONETTE" Nursery Squares

Write for prices; state requirements

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Tree Wound Dressing

Arborist Tree Wound Dressing is a scientifically prepared waterproof composition for application to tree cavities, wounds or other exposed wood of trees. It contains no coal tar, carbolineum, creosote, nor any material injurious to the cambium layer or the life of the tree.

Arborist Tree Wound Dressing possesses antiseptic and fungicidal properties, being waterproof, adhesive and elastic, giving a durable tree wound dressing which will not harm the living tissue.

Per gal.

1-gal. can (6 in case).....\$1.00
30 and 50-gal. drums..... .75

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Build Your Own Irrigation System

Using the nozzle that gives adequate irrigation on low operating cost. Covers 40-foot circle on 15 lbs. pressure. Complete even coverage improves yields and quality of crops.
Plan and instructions sent upon request.

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Anoka
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Barco ALLIGATOR PRUNING SHEARS.

You'll like them so well you'll tell your friends about them...

Everybody likes them—and no wonder! They cut quick and sharp. They make work easy. Strong and durable. Long, narrow, "easy feel" hand grip for hard-to-get-at places. Safe: No pinched hands while using; hidden springs. Easy operating safety lock keeps closed when not in use. Steel blade holders; lock nut keeps blades in line; no spreading. Cutting blade, hardened, tempered, leaves perfect cut. Light weight (only 14 ounces).



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vice-presidents, Louis Bromfield, Lucas, O.; Russell A. Firestone, Akron, O.; Paul H. Jones, Dearborn, Mich., and Lindon M. King, Minneapolis, Minn.; treasurer, Ray P. Foote, New York city, and executive secretary, Andrew S. Wing, New York city. Two trustees, Rodney Brandon and G. Fred Rieman, Muncie, Ind., were also elected.

OBITUARY.

William N. Craig.

William N. Craig, an outstanding figure in horticulture, died April 26 at his home, at Weymouth, Mass. He was 83 years old and had continued to be actively interested in the trade after his retirement from business in January, 1946.

Mr. Craig was born at Levens Hall, Westmoreland, England, of Scotch parents, and came to America at the age of 26. He was in charge of private estates at Framingham Center and Brookline, Mass.

When 60 years old, he started a nursery business of his own at Weymouth. He was an able lecturer and writer on horticultural topics. An outstanding authority on lilies, he was the author of the book, "Lilies and Their Culture in North America," now out of print.

Mr. Craig was a member of many horticultural organizations and had earlier been active in local nurserymen's associations.

Surviving are his widow, Mrs. Mae C. Craig, and a son, Norman, of California.

Harold S. Mabie.

Harold S. Mabie, 65, manager of the Middletown, N. J., experimental seed farm of Peter Henderson & Co., New York, died at Red Bank, N. J., in the Riverview hospital, April 17. His home was at Red Bank.

Mr. Mabie was born at Hackensack, N. J., and had been in charge of the seed farm for many years. Surviving him are his widow, Ethel; two sons, John H., Wantagh, L. I., and Floyd H., North Arlington, N. J., and a brother, Charles H. Mabie, Hackensack.

CONNECTICUT COMMITTEES.

Arthur E. Webster, A. N. Pierson, Inc., Cromwell, Conn., president of the Connecticut Nurserymen's Association, has announced committee appointments for 1947, as follows:

Executive and legislative—Edward Kelly, chairman; Thomas D. Faulkner, Henry Verkade and Robert Bennerup.

Program—Ted Hall, chairman; William Scott, and Robert Hutt.

Membership—E. D. Robinson, chair-

SHADE TREES

• Insects and Worms — destroyed vegetation — reduced leaf area — stunted growth—these are some of the problems of the shade tree grower. Get our illustrated booklet that describes the use of "Black Leaf 40" in controlling certain insects on shade trees. Lists insects — gives dosage.

FREE BOOKLET—Write 4136

Black Leaf 40

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Use this Safe, Odorless, Non-Poisonous Spreader in place of fish oil soaps and summer oils.

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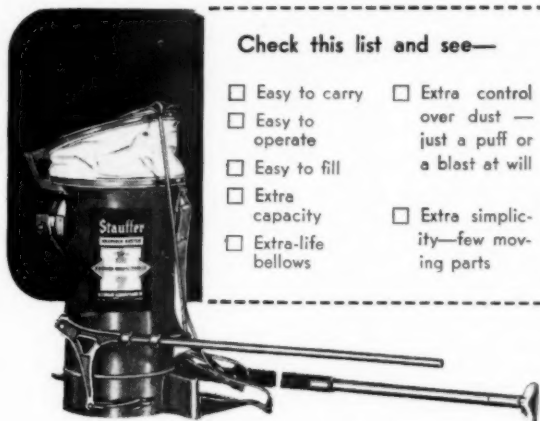
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| <input type="checkbox"/> Easy to carry | <input type="checkbox"/> Extra control over dust — just a puff or a blast at will |
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**HUDSON
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KNAPSACK DUSTER**

Good news for growers everywhere—Hudson Stauffer Knapsack Dusters are now available to help you save time and work on dusting—and do a better job.

Save time and work. The shape and design of this duster make it easy to carry, easy to operate, easy to fill. A man can cover large areas in a surprisingly short time.

Peak protection for crops. To control insect pests and blights you need perfect control over dust—a puff or a blast at will. The Hudson Stauffer is a bellows-type duster—assures correct application of dust without waste.

Uses any dust—any powder insecticide or fungicide (also dust weedicides).

Available now at your hardware, seed, feed or implement dealer. If he doesn't have Hudson Stauffer Dusters in stock, he can get them for immediate delivery from his jobber.



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Send for free folder that tells the complete story of Hudson Stauffer Dusters—how they make dusting easy, economical, effective.

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man; Erwin Whitham, and John Leghorn. Resolutions—Robert Marshall, chairman, and Ludwig Hoffman.

Constitution and bylaws—Wellington Kennedy, chairman; J. M. Woodcock, and Charles Steele.

Publicity—Erwin Whitham, chairman, and Earl Herrick.

State highway landscape—E. M. Brown, chairman; Neal Millane, Peter Cascio and Stewart Wilson.

On the experiment station committee, Alex Cumming, chairman, and Fred Baker are serving for three years; Earl Herrick and Wellington Kennedy, for two years, and Alec Stovekin, for one year.

Erwin Whitham, chairman, and Alex Cumming are serving for three years on the college relations committee; Louis Vanderbrook and Henry Verkade, for two years, and Peter Cascio, for one year.

As chairman of the public relations committee, Louis Vanderbrook is assisted by J. M. Woodcock and Dick Van Heiningen.

PROPERTY of a nursery and florists' business recently purchased by Mr. and Mrs. James E. Newman from Miss Rose Mary Dickinson, at 2657 Lamar, Memphis, Tenn., includes a modern California studio-style apartment with a small greenhouse attached.

BIG NEW PROFITS FEEDING TREES WITH THE FERTIGATOR "WET METHOD"

—HERE'S THE PROOF—
Fertilize, Irrigate and Aerate tree root systems in one simple operation. Uses any standard soluble or non-soluble tree food. Operates effectively on ordinary city water pressure. You can do a BETTER job FASTER with FERTIGATOR.
H. R. Hartling, Kingston, Pa., Tree Man, says:

"I have been using your FERTIGATOR for several years with excellent results. My clients are well pleased, and the use of modern tree care methods adds distinction to my work. The largest and oldest White Oak in this vicinity is under my care, and the results obtained by the use of your Fertigator are amazing."

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For Treating
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MISTMASTER SPRAYER

**Shoots Insecticides
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KILLING bugs and insects that eat up plants, shrubs and trees—ordinarily a slow, tedious job—is speeded up and done properly with MISTMASTER Electric Insecticide Sprayer. It's motorized! It shoots penetrating liquids thru thick, bushy shrubs or plants—covers wide areas in less time.

MISTMASTER Sprayer sprays any liquid insecticide—and especially DDT. Equipped with a 3/5 to 1 h.p. G.E. universal motor, it has that super-power required for proper shooting of spray. It improves the application of any insecticide, and thus makes it more deadly, 1-gallon spray tank. Weight, 7 to 14 lbs.

Write for details

Sprayer Corp. of America
1712 Payne St. Evanston, Ill.

PLANT NOTES.

[Continued from page 14.]

cies by the French botanist Villars, as the result of a few minor technical differences. The stem leaves of *C. rotundifolia* are entire, while those of *C. scheuchzeri* are distinctly serrate, and the flower buds of the former are erect, while they nod in the latter. These differentiating characteristics tend to disappear after two or three generations have been grown from seeds under garden conditions, and all that one has left is *C. rotundifolia* in various guises. It is not surprising to find, then, that very few of the plants seen in gardens under the label of *C. scheuchzeri* possess the characteristics used by Villars in establishing that species.

The foregoing observations seem to hold true, too, when the other forms of *C. rotundifolia*—baumgarteni, lapponica, carnica, arctica, valdensis, hosti and velutina, to name a few—are brought under cultivation for a few years. Unless one has plants which have been propagated vegetatively from botanically correct material, he is scarcely justified in selling any of the species and varieties which have emerged from *C. rotundifolia*.

C. rotundifolia, in its various forms, should be one of the most important garden plants in the genus. It has all the good points, including ease of culture, beauty and long blooming period, which are a part of the really great. It is as easy to grow from seeds as any small-seeded plant and may be readily increased from cuttings or divisions. Different growers have different methods for growing cuttings. Personally, I like to pull the clumps apart just as they are coming into active growth in spring, rooting the species in the usual way.

Hutchinsia Alpina.

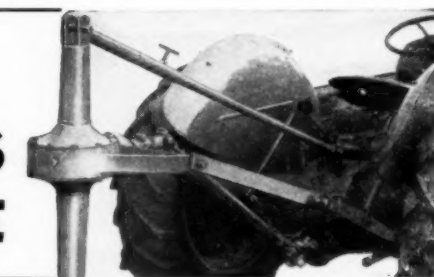
A New York reader in a recent letter tells me that repeated efforts with *Hutchinsia alpina* have only led to failure and asks for advice on its culture. I suspect that one, or perhaps both, of the two important points in its culture—moisture and tenderness to cold—may be at fault. I give below my opinion of the plant and its cultural needs as they have developed here in northern Michigan.

This little crucifer is a delightful mat for cool, partly shaded rock-work, growing from one to three inches high and producing myriads of small white cross flowers for close to two months in spring. It seems never to have attained much popularity in this country, having the reputation of being rather difficult to grow. As a matter of fact, it is quite

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easy to handle under eastern conditions if its need for moisture is understood and supplied. The idea that the plant would do well in any sunny situation probably came from English writers, but growing conditions here are far different than they are in the

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British isles. We of the middle west, at least, have to give it some shade, in the absence of moisture. In addition to its use in rock gardens, it makes, because of its shallow-rooting habit, an excellent ground cover for small, hardy bulbs, if its need for

a fair amount of moisture can be supplied. It is an easy plant that might become popular if gardeners were shown the plant in actual use, were told about its culture and were warned to protect it with evergreen boughs in snowless winters. Like most crucifers, it comes readily from seeds and may also be grown with ease from cuttings.

Two Native Geraniums.

Geraniums are among the most neglected of all large groups of easily grown hardy plants, scarcely more than half a dozen of the 250 known species being found in American lists. And I still insist that commercial growers are missing many opportunities by this neglect. Not all this vast number need be grown, of course, and not even a majority of them, but there are literally scores of really good garden plants to be found in the genus, some of them American. Of the American forms I think it would pay you to investigate *G. incisum* and *G. nervosum* when you are selecting the crane's-bill section of your plant list. In my opinion, the former is to be numbered among the best of hardy geraniums, being surpassed by not more than four of the exotic species that I know. Material that I had, which came from the southern part of the plant's range, was not reliably hardy in unprotected spots in this garden, though it survived our severest winters if it was protected with a covering of snow until spring. No doubt material from its northern habitats (it grows as far north as Alaska) would be perfectly hardy anywhere in the United States. Plants of the species vary both in stature and color of flower, according to observers in the northwest. Material grown here was fairly constant as to height, remaining around ten to twelve inches, and showed little deviation from a light purple, revealing none of the rose or pink shades reported by some. Perhaps seeds from a number of sources or from a garden where variations are present would give one a wider selection of colors. The best of these could be multiplied by vegetative means, adding, no doubt, to the usefulness of the species. As it stands now, *G. incisum* is a splendid plant for rock garden or border in sun, if the climate is cool, or in part shade in hotter sections. I suspect it would do better in most parts of the east if it had a little shade.

Almost as desirable is *G. nervosum*, a 12 to 15-inch plant from the Rockies. Here it did well in full sun and dry soil, blooming profusely for a month or more in spring and con-



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tinuing intermittently throughout the summer, with white flowers veined with narrow lines of reddish-violet.

All geraniums are easily grown from seeds, which usually germinate over a quite long period, some coming within a few days, while others of the same lot may stay underground for months. In view of that fact, it is well to give the seeds ample space, so seedlings can be pricked out without disturbing the sleepers. They may also be increased from divisions. In my experience it is best to do this in early spring by pulling the tufts apart, leaving each piece with a few roots attached. Cuttings taken with a heel also root readily in spring, just as the plants are starting into growth, or in winter from forced plants.

Iris Dichotoma.

A beginner in commercial plant growing asks for a report on the vesper iris, *I. dichotoma*. I can do no better than give a note written about fifteen years ago which is as good today as it was then.

Iris dichotoma, a fall-blooming iris, seems to be making little headway in gardens, if its absence from commercial lists is an indication of conditions. This apathy of growers and gardeners toward the plant probably can be traced to the fact that it is often spoken of in the literature as a biennial, and few folks would care to grow an iris which lasts only two years. Let me assure you, however, that an experience of close to ten years allows me to state positively that it is not a biennial as it behaves here. On the other hand, there are clumps here now that are seven years old which are more vigorous than they were in their second year. I cannot say that it is as long-lived under all conditions, but its behavior here tells me it is an important addition to the list of late summer (August and September) bloomers.

The flowers are generally orchid-lavender, though they may be creamy-white to purple. It is true that they are small and rather short-lived as individuals, but they are produced continuously for close to two months and at a season when color in the garden is appreciated. In our light soil *I. dichotoma* grows two feet tall or slightly taller, but I have seen it reach three feet in rich soil. It is then said to be rather short-lived.

Gypsophila Fratisensis.

A plant of *Gypsophila fratisensis*, a baby's breath, introduced into heat some time ago for propagating experiments, is now in flower, reminding me that growers who do not possess this engaging little plant are missing a good sales item. Although

some botanists dispute the plant's right to a specific name, I notice that the latest edition of *Hortus* gives it the credit of being a horticultural form. I am not prepared to discuss that phase, but I do know that it is a perfectly distinct form of baby's breath which possesses more than the ordinary amount of garden value. Though it resembles *G. repens* in some ways, it is a much more restrained grower in material that I have had from several sources. The



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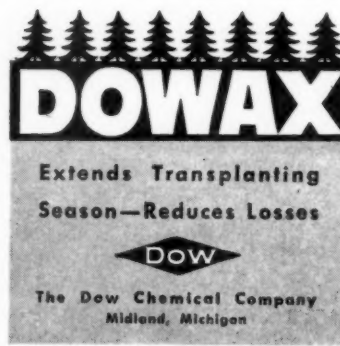
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some botanists dispute the plant's right to a specific name, I notice that the latest edition of *Hortus* gives it the credit of being a horticultural form. I am not prepared to discuss that phase, but I do know that it is a perfectly distinct form of baby's breath which possesses more than the ordinary amount of garden value. Though it resembles *G. repens* in some ways, it is a much more restrained grower in material that I have had from several sources. The



flower color is a clear pink of pleasing shade, and it blooms here in the open from June to frost. It has come quite true from seeds in our trials. *Gypsophila*s do not move easily while in

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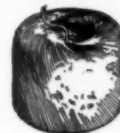
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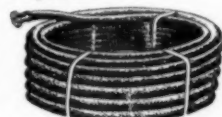
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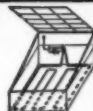
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HOLLIES.

[Continued from page 8.]

too, *Ilex aquifolium afructo-luteo*, or as it is sometimes called, *bacciflava*. This plant makes a beautiful bush. It is spiny, and the leaves are glossy.

Hodginsi, polycarpa and pendula are other forms of *I. aquifolium* well worth growing. And there is a white-fruited variety, too, but we do not have that one; so I know little about it.

I recently received from a friend of mine several varieties of English, or as we call it, common holly. One of the daintiest and finest of all the hollies I have ever seen is the *Ilex aquifolium chinensis*, which comes from central China and does not resemble the standard type of holly. It has smaller leaves, very spiny, but slightly softer in texture than the ordinary *aquifolium*. Close and compact-growing, with more lanceolate leaves, it is indeed a gem. As to its hardiness, I cannot say a thing, because I have not planted it out yet.

Ilex Cornuta.

There are many other valuable hollies besides the varieties of *I. aquifolium* already mentioned. One that is ornamental and has proved hardy here, to my great surprise, is *Ilex cornuta*, the horned holly. It is found in various parts of China and was discovered by Robert Fortune in 1846 in the neighborhood of Shanghai.

The horned holly is an interesting one. The leaves have only five spines, but they are sharp and pronounced. The plant grows compact and shapely and has a rounded outline. The berries, which are large and a bright red color, are produced in profusion.

There are two varieties of this holly, *Ilex cornuta burfordi* and *Ilex cornuta foemina*. They look rather similar and may be spineless, armed with only one spine at the extreme point or armed with two small spines near the apex. They are both ornamental plants and have the same big, beautiful berries as the main species.

Ilex Pernyi.

Another holly that also comes from China is *Ilex pernyi*. It was named in honor of a French missionary, Paul Perney, and it was described for the first time around 1880. But it was not before much later that the plant came to be known as a cultivated variety, and it was "Chinese" Wilson who sent seeds to England for Messrs. Veitch, for which firm Mr. Wilson collected at that time.

Ilex pernyi grows into a small tree or big bush of about twelve to fifteen

feet. It is a rather slow grower, but dense and bushy; it retains its pyramidal shape, at least for a while. The leaves are small, armed with spines and dark green and glossy on the upper surface, while the underside is pale green. The berries are unusual-

ly large and borne in the leaf axis; it is a most striking plant in full berry. Care must be used in picking the berries, or the whole leaf under the berry may be pulled off.

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pernyi, by the name of *Ilex aquipernyi*. Fortunately we have both male and female forms. It is a beautiful evergreen holly, with leaves twice as big as those of pernyi but smaller than those of *aquifolium*. In shape the leaves are like those of pernyi, but they are not so closely set on the branches. This hybrid I consider one of the best hollies in cultivation. There is a named variety of this, *Brilliant*, which has bigger and brighter berries.

A holly closely related to pernyi, but faster-growing and with bigger and brighter berries, is the species *Ilex ciliospinosa*. It is one that is not described well in any literature. The leaves are broad and lanceolate, with small spines that are not very pronounced or sharp. The berries are produced in abundance, several together in the leaf axis, and are red. *Ilex ciliospinosa* grows to about fifteen feet as a small tree or big bush, according to treatment when young. It is a good holly and one that is often erroneously named *fargesii*, which is a holly with leaves four to six inches long, narrow, lanceolate and not at all like those of *ciliospinosa*.

Two hollies that look more like evergreen privets than hollies are *sugeroki* and *yunnanensis*. The *sugeroki* is not common in cultivation and grows into a spreading bush with light green, ovate leaves and bright, scarlet solitary fruits. As a large plant it is handsome. The *yunnanensis* looks like a robust *crenata*, but the leaves are more rounded and glossier than those of the latter.

[Continued in next issue.]

A. C. P. TYLER, Beaumont, Tex., drove to Chicago with his wife, sister and brother-in-law at the beginning of May for a three weeks' vacation trip.

CHESTER LUKE was recently appointed manager of the Classen Nursery Co., Oklahoma City, Okla. A new greenhouse has been added to the facilities of the firm.

SHERMAN P. HOLLISTER, professor emeritus of horticulture at the University of Connecticut, Storrs, was presented with the Connecticut Tree Protective Association's annual award of merit at its silver jubilee meeting, at Bridgeport, last January. The award was made for his outstanding contributions to tree care and horticulture. Professor Hollister recently became assistant director of the Bartlett school of tree surgery, Stamford, Conn.

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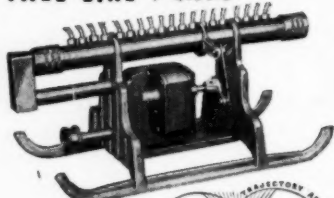
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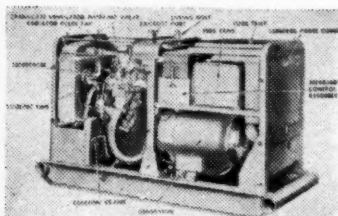
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50% off, 5-kw, 110-220-v, 1-ph, 60-cy, automatic; bargain, 2.5-kw, 110-v, 1-ph, 60-cy; for bungalow, 300-watt, 115-v, \$97; also many other sizes with tools and spare parts.

Export Packed—Immediate Delivery.

SPRAYED INSULATION INC.
78 Hawthorne Place Montclair, N. J.

ATTENTION NURSERYMEN!



**IMP.
SOAP
SPRAY**

Use 1 part with 25 to 40 parts of water

Ask your nearest seedsman, or
write for literature.

THE AMERICAN COLOR AND CHEMICAL CO.
176 Purchase St. Boston, Mass.

BUDWOOD CERTIFICATION.

[Continued from page 9.]

locate established trees or grow a suitable source of budwood for each variety.

The selected trees must be examined and later indexed according to a standard plan. If they are believed to be free from disease, they may be registered. The trees must be in bearing, and examinations are to be repeated each year. No top-worked trees may be registered. The following procedures for registration are suggested:

Peaches—in fruiting condition, for freedom from peach wart, yellows, little peach and red suture; at appropriate time for expression of Western-X disease, yellow bud mosaic, peach mosaic, Eastern-X disease, phony peach and peach rosette.

Cherries—in fruiting condition, for freedom from albino cherry, little cherry, California buckskin, deep suture and pink fruit of sour cherry; at appropriate season for expression of rusty mottle, rasp leaf and crinkle. It is suggested to index into Bing all varieties excepting Bing and Royal Ann for mottle leaf and all except Bing for twisted leaf.

Apricots—in fruiting condition for freedom from ring pox.

Plums and prunes—in later part of fruiting period.

The presence of any symptoms indicative of virus should be a basis for refusal of registration, even though none of the diseases listed is present. The handbook of virus diseases of stone fruits is regarded as standard.

All selected trees must be examined by qualified authorities at fruiting time for trueness to type and variety.

All trees selected must be marked with a code number by painting it on the trunk in a conspicuous manner with orange paint. Records will be maintained showing the name and address of applicant, location of property, location of tree on property, date of inspections or re-inspections and date and registration number. The inspection agency would issue a registration card to the applicant when registration is granted and would furnish duplicate registration records to appropriate officials.

Registration would be subject to cancellation at any time a registered tree developed or showed a disease which would prevent it from meeting registration specifications: The registration agency would issue a standard shipping sticker to cooperating nurserymen for attachment to shipments.

Nurserymen must take all propaga-

Our First Postwar Shipment CHINESE TONKIN CANES

The nurserymen's favorite Bamboo Stakes. Due to arrive early in June.

| | |
|------------------------|----------|
| 5 ft., 5/8 to 3/4-in., | Per bale |
| packed 250 per bale... | \$22.00 |
| 6 ft., 3/4 to 7/8-in., | |
| packed 200 per bale... | 21.00 |
| 7 ft., 3/4 to 7/8-in., | |
| packed 150 per bale... | 26.00 |

F.O.B. New York. Bale lots only. Write for special quantity discounts.

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RAFFIA

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BULBS

McHUTCHISON & CO.
95 Chambers St. New York 7, N. Y.

SHAPE & TRAIN EVERGREEN TREES THIS NEW EASY WAY

Instantly converted from Tree Shaper to Hedge Shaper. Folds to hang on wall for easy storage.

All Steel, Precision built of telescoping tubing. Plated for lifetime use. Weighs 6 lbs. Unconditionally Guaranteed. Every owner a happy user. Immediate delivery from stock. \$15.00 prepaid anywhere in the U.S.A.

Use the PERFECTIM TREE SHAPER. A guiding tool for shaping Evergreen Trees and Hedges. With this Shaper anyone can trim an Evergreen Tree in 10 minutes or less without previous experience. Simply place Shaper under tree with fork against tree trunk and rotate it around tree with your foot leaving both hands free to operate shears or other cutting implement. Eliminates need for strings, stakes and long distance sighting. Adjustable any size or shape for trees up to 10 feet tall.

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P. O. Box 997, Dept. 2-1, Lansing, Michigan

LINDIG'S SOIL SHREDDER

New improved model

Engineered for the perfection of soils.

Prompt delivery.

Write for folder and price list



Lindig's Mfg. Co. 1875 W. Carpenter Ave. St. Paul 8, Minn.
Special equipment built to your specifications.

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Your accounts kept at our office in a simplified manner, at small cost per week. Including Income Tax, Social Security and Unemployment reports. Business and Financial statements. We supply everything. No business too large or too small. Write for particulars.

KINGS ACCOUNTING & TAX SERVICE
Div. of ALLEN CO.—Kings—Pittsboro, N. J.
W. E. Haver, Chief Accountant

THE ANSWER TO EVERY NURSERYMAN'S DREAM!
Once You TRY IT You'll NEVER AGAIN Be Without It

GET THE "FEEL" OF
FAMOUS →

CONSERVE THAT MOISTURE
PROTECT YOUR PLANTINGS

VITALOAM
TRADE MARK

— Sold in 48 States and Canada —



These Plants looked identical when repotted.
Repotted April 8th — Photo May 7th

The Sweetheart of the Soil

"It rejuvenates the Earth"

Needed by Every Nurseryman, Landscape Gardener and Tree Expert in America. NOT A COMMERCIAL FERTILIZER. Put Right Around The Roots Of Trees and Plants.

REJUVENATE Your SOIL With "VITALOAM"

WARNING—Send in your order NOW to insure delivery.

A famous American nurseryman calls VITALOAM "black gold" and he recently flew from Virginia to Lancaster to compliment us personally on the creation of an outstanding product.

Use your letterhead and write for Wholesale Prices!

SOIL RESEARCH LABORATORIES, INC.

531 East Main St.

Lancaster, Ohio

tion wood for these varieties from registered trees and maintain the identity of nursery stock from each source tree by attaching the registration number to each lot of nursery stock.

Collection of Scion Wood.

All scion wood must be taken under the general supervision of designated inspectors.

Fruit tree propagating wood may not be brought into the state of Washington without written approval of the state department of agriculture. Budwood may not be taken or shipped either within or without the state without such approval.

Growing Grounds.

All virus-infected trees are to be removed promptly from the nursery grounds and from within 100 feet of the growing fruit tree stock. All seedling stock must be examined before it is budded and undesirable stock removed.

Each variety and/or budwood source (as to mother tree) must be staked properly.

Growing nursery stock must be examined, and diseased, seedling or undesirable stock rogued at once. In addition to the regular inspection of scion wood trees for trueness to va-

NURSERY HAND TRUCK

This Garden Shop Hand Truck is so well known today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery. Material shortages have slowed our production, but we are shipping as quickly as possible. Early orders are suggested, as we ship in same order that we receive orders, and demand for nursery equipment is great because of the rapid expansion of the nursery business.

SPECIFICATIONS
Equipped with Jumbo Balloon Tires and Tubes, 12x4 inches.
Specially Designed Curved Nose.
All-steel Construction, electrically welded.
Weight 55 pounds.
Over-all Length 63 inches.
Over-all Width 27½ inches.
Capacity 25-lb. Ball weighing 600 pounds.



The Garden Shop's
SMALL HAND TRUCK
Pat. No. 110110

Write us for descriptive literature and prices.

THE GARDEN SHOP, Inc.

4819 Mission Road

Kansas City 3, Kans.

ALLEN'S "FERTO-POTS"

Grow better vegetables, flowers, corns. Start in flats, then plant pot and all. **PLANT EATS POT.**

Box of 100 Box of 250
2½-inch pots\$2.75 \$5.00
3-inch pots 3.00 5.50

Write for literature and prices on our full line of Agricultural Chemicals. Dealers wanted.

ALLEN CO., Pittstown, N. J.

ORCHARD HEATERS

400 Heaters, good as new.

| | Each |
|----------------|--------|
| 1 to 25..... | \$4.00 |
| 25 to 50..... | 3.75 |
| 50 to 100..... | 3.50 |

LAKE CHARLES NURSERY

Box 146 Lake Charles, La.

BOOKS

for Nurserymen

Book A. Illustrates in full color 235 standard nursery items, brief description, substantially bound. Price in small lots, **75c** each.

Descriptive Nursery Catalog

Nicely illustrated, 48 pages and cover. **20c** each in small lots.

Correct Planting Methods

A pocket-size 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, **10c**. Write for discounts on quantities.

Will send sample copy of each of the above on receipt of **\$1.00**. Cash with order.

Made to Order

Catalogs, Folders, etc., with illustrations in full color or one color. Thousands of engravings available. Send your specifications or samples for estimate and suggestions.

A. B. MORSE COMPANY
ST. JOSEPH, MICHIGAN

GOODRICH RUBBER BUDDING STRIPS

100% Natural Rubber

Also Madagascar Raffia.

Write for prices.

THOMAS B. MEEHAN CO.
DRESHER, PA.

HALPERN BROS.

Burlap and Cotton NURSERY SQUARES

all sizes.

272 S. 2nd St. Market 3346
PHILADELPHIA 6, PA.

A. M. LEONARD & SON

Piqua, Ohio

Tools — Grafting Supplies

Write for Bulletin.

riety, the growing stock will be inspected in the nursery for trueness to variety. This phase of the work will first be used for cherries and expanded to other fruits as experience and personnel permit.

The inspectors will have access to all stock at any time and will be instructed to remove or have removed virus-diseased trees or those showing bud-perpetuated abnormalities. Nurserymen must rogue diseased or off-type trees also.

The nurserymen will furnish to the state department of agriculture by October 30 of each year a complete record of all fruit trees propagated, the understock used, the source of budwood used and a map locating by blocks and varieties the trees in the nursery.

Certificates for reshipment of nursery stock are permitted, provided the origin of rooted trees and budwood sources are established. Continued identity must be maintained to the satisfaction of the certifying inspector, and all requirements of this nursery improvement plan must be met constantly.

The state department of agriculture will have on file the complete information on nursery examinations and records pertaining to the scion wood source for all nurseries. This information will not be available to other nurserymen.

The complete observance of all provisions in this plan is not possible at present. In order to further the program most of the provisions would be entirely on a voluntary basis for at least a 2-year period. As the plan unfolded and necessary changes developed, it would become mandatory to follow a revised plan strictly.

CATALOGS RECEIVED.

I. E. Ilgenfritz' Sons Co., Monroe, Mich.—One hundredth anniversary wholesale price list of general nursery stock; 50 pages and covers, 5x8 inches.

Nurserymen's Exchange, San Francisco 3, Cal.—Wholesale list of plants, bulbs, seeds and miscellaneous supplies; 55 pages and covers, 3 3/4x9 inches.

Calapooia Berry Farm & Nursery, Shedd, Ore.—Wholesale price list of berry plants and small fruits; 4 pages and covers, 6x9 inches. Retail catalog of berry plants and general nursery stock; illustrated, 26 pages, 8x11 inches.

Oak Park Nurseries, East Patchogue, N. Y.—Catalog of general nursery stock, no prices given; illustrated, 26 pages, 7x10 inches.

The Kindig Nursery, Elkhart, Ind.—Retail catalog of dahlias and miscellaneous plants; 20 pages, 5 1/2x8 inches.

THE broken leg of Fred Shoomsmith, Southside Nurseries, Richmond, Va., is healing nicely.

For Over 5 Years Our

OPEN MESH COTTON NURSERY SQUARES

have rendered
complete satisfaction

to the

LEADING NURSERYMEN

throughout the

UNITED STATES and CANADA.

Why not try them?

Also

NEW 9-OUNCE
BURLAP SHEETS
Size 31x34 ins.

Now Selling for
IMMEDIATE
or
LATER DELIVERY

Samples and Prices Gladly
Furnished upon Request.

**AMERICAN-NATIONAL
BAG & BURLAP CO.**
INCORPORATED

343 Kent Ave., Brooklyn 11, N. Y.

IT COSTS NO MORE (and in most instances less) FOR OUR PACKING OF Nursery Burlap Squares and Rolls

Write for prices and samples.

L. ATKIN'S SONS
P. O. Box 167 Rochester, N. Y.

LABELS FOR NURSERYMEN

THE
**BENJAMIN CHASE
COMPANY**
DERRY, N. H.

GET IN THE PROFIT PICTURE

WITH

* CLOVERSET POTS

*PATENT NO. 2073695

THEY ARE RIGHT IN LINE FOR YOUR STREAMLINED OPERATIONS

(STANDARD HEAVY)

| | No. 0 | No. 1 | No. 2 | No. 3 |
|------------------------|---------|---------|---------|---------|
| Height | 5½ ins. | 6½ ins. | 9½ ins. | 9 ins. |
| Diam. Top | 5 ins. | 6 ins. | 7 ins. | 8 ins. |
| Bottom Diam. | 4½ ins. | 5½ ins. | 6½ ins. | 7½ ins. |
| Corresponding Clay Pot | 6-in. | 7-in. | 8-in. | 9-in. |
| Approx. Weight Per 100 | 35 lbs. | 52 lbs. | 78 lbs. | 88 lbs. |
| Per 100 | \$2.75 | \$4.00 | \$4.50 | \$5.00 |
| Per 1000 | \$25.00 | \$37.50 | \$42.50 | \$47.50 |

Orders for 300 or more pots, any size, take the 1000-pot rate.

We recommend: No. 0 for perennials and use in the greenhouse; No. 1 for perennials and mums; No. 2 for roses and shrubs; No. 3 for large shrubs and transplanting.

F.O.B. KANSAS CITY. TERMS: CASH WITH ORDER (EXCEPT ESTABLISHED ACCOUNTS). Prices subject to Change WITHOUT Notice. Please send ¼ of amount with C.O.D. orders.

IF YOU DESIGNATE EXPRESS, we advise you to check the cost with your local express agent. Unless otherwise instructed, we will determine method of shipment.

Cloverset Pots take 3rd class freight rate. All Cloverset Pots are packed 100 in carton, ready for use. We do not break cartons.

CLOVERSET FLOWER FARM

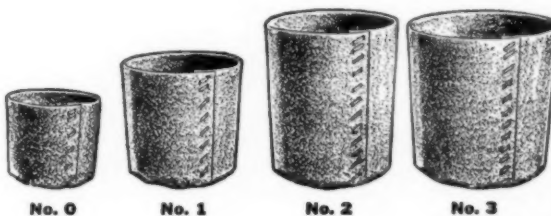
ERNEST HAYSLER & SON

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● Attractive appearance, ease in handling make them ideal for the serve-yourself merchandising customers prefer.

● There is no loss from breakage, although Cloverset Pots are lightweight—weighing only 1/16 as much as clay pot of same capacity.

● Pots are so low-priced that they may be given away—minimizing time lost in serving customer and creating customer good will.

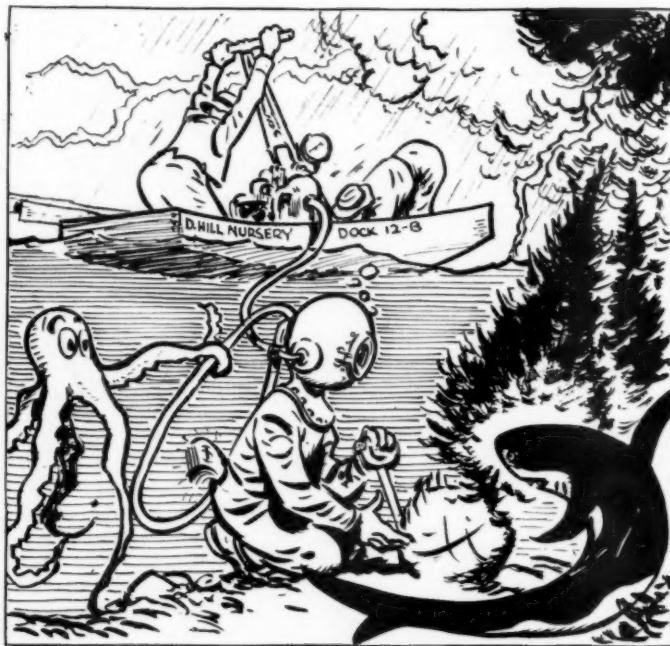


In keeping with the profit-building trend to modernized nursery methods, progressive nurserymen have found that plants set in Cloverset Pots make handsome displays; and sell easily at a higher price, if desired.

Made from tough, asphalt-impregnated felt, Cloverset Pots are nonporous—requiring half as much watering. Plants may be quickly removed for planting by tearing or cutting pot; and your customer will find that plants are seldom lost when started and potted in a Cloverset Pot with double soil capacity.

**ORDER EARLY
FREIGHT SHIPMENTS ARE SLOW.**

HAVE YOU EVER TRIED THIS?



D. Hill Nursery, Spring, 1947

This Spring has changed our ideas of nursery operation, but even the strongest language of our finest exponents hasn't changed the rain situation one little bit.

We hope that by the time this is in print (We said this in the last issue, too!), all of our orders will be shipped, and that we can serve you well with those few of our Evergreens not floating down the Mississippi River.

D. HILL NURSERY COMPANY

Evergreen Specialists

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Largest Growers In America

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